

pikrite

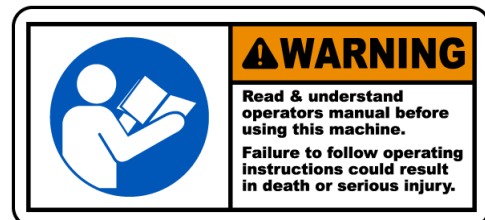
HR 400

HydraRam  
SPREADERS

# OPERATION AND PARTS MANUAL



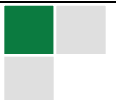
PROUDLY MADE IN THE USA



Pik Rite Inc.  
60 Pik Rite Lane  
Lewisburg, PA 17837

MAY 2020

Phone 800-326-9763  
Fax 570-523-8175  
[www.pikrite.com](http://www.pikrite.com)





Some illustrations may not represent the spreader model you have; however, the principles of operation and maintenance are the same. If you have questions specific to your spreader please contact your dealer.

**SPECIFICATIONS AND DESIGN SUBJECT TO CHANGE WITHOUT NOTICE**

## OPERATION MANUAL 7

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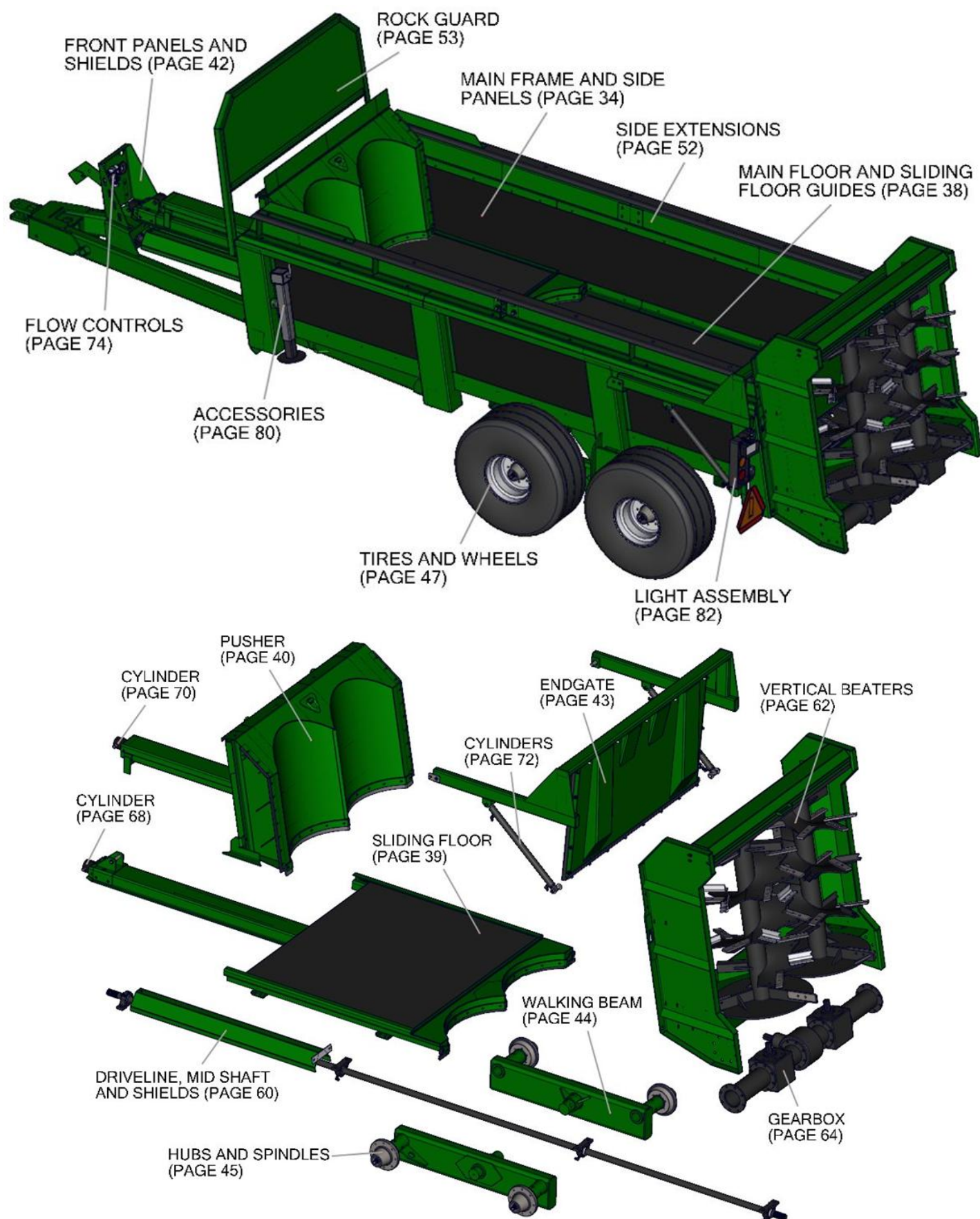
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## TO THE NEW OPERATOR OR OWNER

Since 1986 Pik Rite equipment has been developed by people who work as hard as you do in the fields, on the farm and on site. Our goal is to deliver products that get the job done with the most efficient results. If you want tough, dependable people and products you can count on, we've got your back.

This manual is provided to all our customers of newly manufactured manure spreaders to create an awareness of all maintenance expectations and dangers that may be encountered when owning this equipment. This manual should be kept for all future references. Please review these operating instructions carefully, then sign and date the last page of this document and return it to Pik Rite Inc. for processing. This will activate your warranty and verify that you have read and understand the following operating instructions and warnings. In the event you have questions or encounter other applications not discussed in this manual, please call before proceeding.

***Congratulations and Thank You*** for choosing a quality manure spreader manufactured by Pik Rite Inc. We believe you'll be very satisfied with the purchase, and we appreciate your patronage.

## PRINCIPLES OF OPERATION

The legacy of the 2-stage hydraulic push began with the John Deere Hydra-Push spreaders. Pik Rite continues the tradition with the Hydra-Ram series, which are designed to efficiently and uniformly spread manure. Equipped with a double hydraulic cylinder these spreaders also have a sliding floor. Each Hydra-Ram spreader is built to withstand the demands of farm life. All side and floor panels are constructed with a laminated poly covered finish for maximum strength and durability.

***Less Compaction*** – This line of tough machines uses both a sliding floor and a moving front panel to deliver the material to the beaters. The sliding floor is pushed back first, using an engineered hydraulic cylinder. When fully extended, the front panel moves back to unload the box completely.

***Less Maintenance*** – The Hydra-Ram is engineered to get the job done with fewer moving parts. This design efficiency extends the life of the spreader while requiring less maintenance and down-time than other manufacturer's equipment. Auger systems tend to compact the material into clumps, causing uneven distribution and increased wear on the beater system. The 2-stage hydraulic push technology greatly reduces compaction and provides optimal clean-out.

***Less Time, Spread Faster*** – The Hydra-Ram 2-stage push system delivers the material to the beaters at an even and controlled speed. Manual and/or electric over hydraulic flow controls allow you to unload the material faster than auger or side sling machines.



## RECOGNIZE SAFETY INFORMATION

This is the safety-alert symbol. When you see this symbol on your machine or in this manual be alert to the potential of physical injury.

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

## UNDERSTAND SIGNAL WORDS

A signal word – DANGER, WARNING, or CAUTION – is used with the safety-alert symbol. DANGER identifies the most serious hazards.

**DANGER** indicates a hazardous situation which, if not avoided, **will** result in death or serious injury.

**WARNING** indicates a hazardous situation which, if not avoided, **could** result in death or serious injury.

**CAUTION** indicates a hazardous situation which, if not avoided, **could** result in minor or moderate injury.

**NOTICE** is used to address practices not related to physical injury.

**SAFETY INSTRUCTIONS** are used to indicate specific safety-related instructions or procedures.

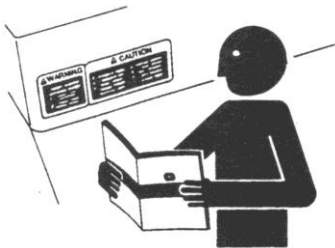
## FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety labels.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

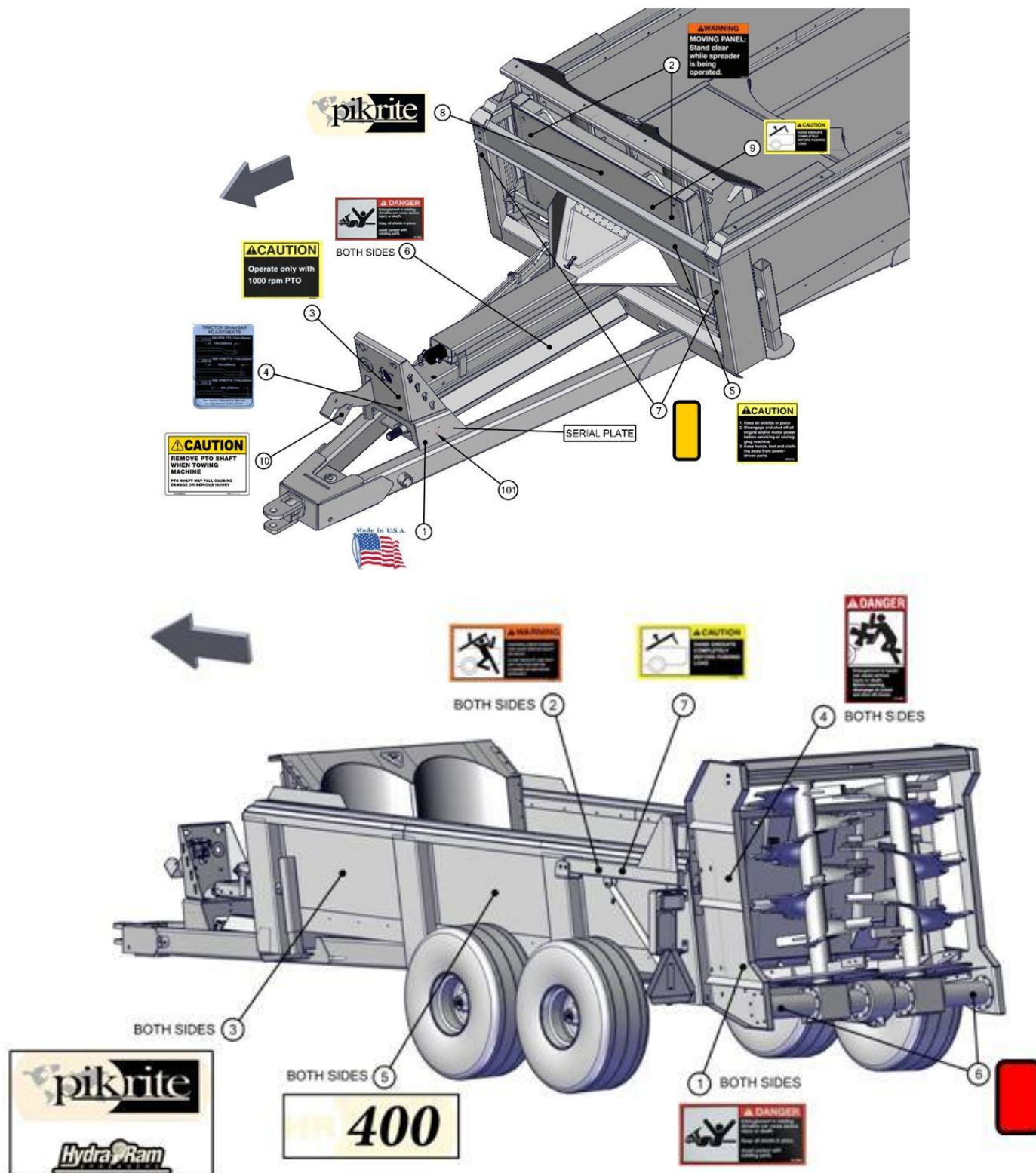
If you do not understand any part of this manual and need assistance, contact your Pik Rite dealer.





## REPLACE SAFETY LABELS

Keep safety labels in good condition. Replace missing or damaged safety labels. Be sure new equipment components and repair parts include the current safety labels. Replacement safety labels are available from your Pik Rite dealer (See "Front Decals" and "Side Decals" in the Parts Manual for part numbers.)



## SAFETY

### **⚠ DANGER** KEEP SHIELDS IN PLACE

Do not operate spreader without safety shields in place.

Rotating parts can crush or dismember causing death or personal injury.

Disconnect PTO driveline and hydraulic lines from tractor before removing shields for adjustment or service.



### **⚠ WARNING** PROTECT BYSTANDERS

Never operate the spreader near people.

Do not place rocks, timbers or other solid objects in the spreader. Objects can be thrown great distances causing injury to people.



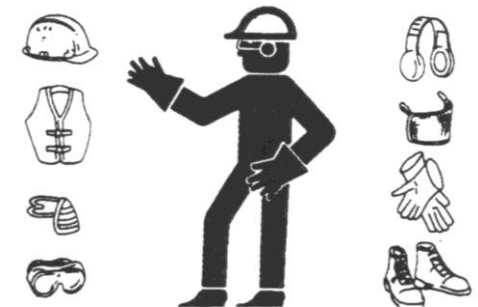
### **⚠ CAUTION** WEAR PROTECTIVE CLOTHING

Wear close fitting clothing and safety equipment appropriate to the job.

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.

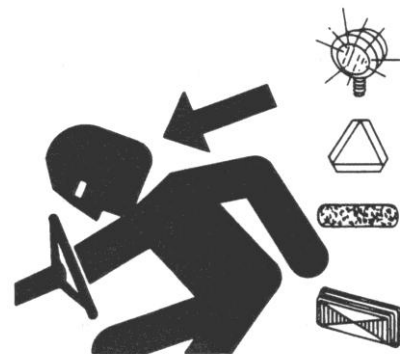


### **⚠ WARNING** USE SAFETY LIGHTS AND DEVICES

Slow moving tractors, self-propelled equipment and towed implements or attachments can create a hazard when driven on public roads. They are difficult to see, especially at night. Avoid personal injury or death resulting from collision with a vehicle.

Flashing warning lights and turn signals are recommended whenever driving on public roads. To increase visibility, use the devices provided with your machine. For some equipment, install extra flashing warning lights.

Keep safety items in good condition. Replace missing or damaged items.





## **WARNING KEEP RIDERS OFF MACHINE**

Riders are subject to injury such as being struck by foreign objects and being thrown off the machine. Riders also obstruct the operator's view resulting in the machine being operated in an unsafe manner



### **SAFETY INSTRUCTIONS**

## **PARK SPREADER SAFELY**

Park spreader on a level surface and block wheels.

Close endgate.

Secure jackstand with pin.

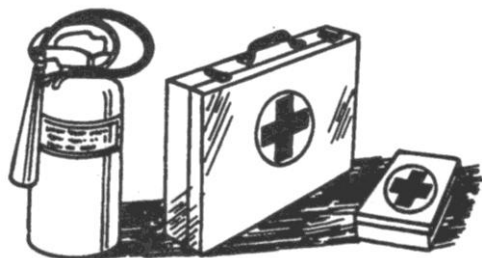
### **NOTICE**

## **PREPARE FOR EMERGENCIES**

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



### **SAFETY INSTRUCTIONS**

## **USE A SAFETY CHAIN**

A safety chain will help control drawn equipment should it accidentally separate from the drawbar.

Using the appropriate adapter parts, attach the chain to the tractor drawbar support or other specified anchor location. Provide only enough slack in the chain to permit turning.

See your Pik Rite dealer for a chain with a strength rating equal to or greater than the gross weight of the towed machine. Do not use safety chain for towing.



## SAFETY

### **⚠ DANGER OPERATE SPREADER SAFELY**

Rotating parts can entangle or strike people, resulting in death or personal injury.

Never enter a spreader while in operation.

Operate the spreader from the tractor seat only.

Do not exceed load capacity of the spreader. (See Transport section)

Reduce speed when turning or traveling on rough terrain. Avoid traveling over loose fill, rocks, ditches or holes.

When working on inclines or slopes, travel uphill or downhill. Keep tractor in gear when traveling downhill.



### **⚠ WARNING STAY CLEAR OF RAISED ENDGATE**

Contact with a lowering endgate can cause death or personal injury.

Lower endgate and disconnect hydraulic lines before servicing or adjusting.



### **⚠ WARNING STAY CLEAR OF ROTATING DRIVELINES**

Entanglement in rotating driveline can cause serious injury or death.

Keep tractor master shield and driveline shields in place at all times. Make sure rotating shields turn freely.

Wear close fitting clothing. Stop the engine and be sure PTO driveline is stopped before making adjustments, connections, or cleaning out PTO driven equipment.



### **⚠ DANGER STAY CLEAR OF ROTATING BEATER**

Rotating beater can entangle or strike causing death or personal injury.

Do not clean out or service spreader while beater is rotating.

Disconnect PTO driveline and make sure all parts have stopped rotating before cleaning or servicing.

**Do not cut or weld on vertical beater attachment. Serious injury or death could occur when operating.**







## **WARNING AVOID HIGH-PRESSURE FLUIDS**



Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source.

### **SAFETY INSTRUCTIONS**

## **SERVICE SPREADER SAFELY**



To help prevent personal injury caused by unexpected movement, be sure to service spreader on level surface.

If spreader is connected to tractor, disengage PTO, engage parking brake and/or place transmission in "PARK," shut off engine and remove key.

If spreader is detached from tractor, block wheels and use safety stands to prevent movement.

Replace all shields after lubricating or servicing.

### **SAFETY INSTRUCTIONS**

## **REDUCE SPEED WHEN TOWING LOADS**



Braking to stop towed loads from transport speeds can cause the towed load to swerve and upset. Reduce speed if towed load weighs more than the tractor and is not equipped with brakes.

Follow recommended speed-weight ratio guidelines:

- Maximum speed is 20 mph (32 km/h) when towing loads equal to or less than the tractor.
- Reduce speed to 10 mph (16 km/h) when towing loads more than equal and up to double the tractor weight.
- Do not tow loads exceeding double the tractor weight.
- Use additional caution when towing loads under adverse surface conditions, when turning, and on inclines

## PREPARING THE TRACTOR

### **NOTICE** APPROVED TRACTORS, MODEL HR400

Row Crop Tractors with 100 HP PTO rating or larger are approved for operation with the HR400 Spreader.

Utility Tractors are **NOT APPROVED** because of drawbar weight limitations and the inability to ballast the tractor enough to meet requirements for towing.

A drawbar support is required on any tractor with a drawbar size of no less than 1-1/2 x 3 in.

Tractor hydraulic oil reservoir must have capacity for 3.4 U.S. gal. net draw for a spreader with an endgate or 3.1 U.S. gal. without an endgate.

Tractor standby hydraulic pressure must be between 1500 psi and 2250 psi.

One selective control valve is required to operate the spreader.

A second selective control valve is required to operate the endgate.

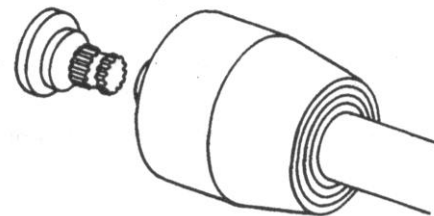
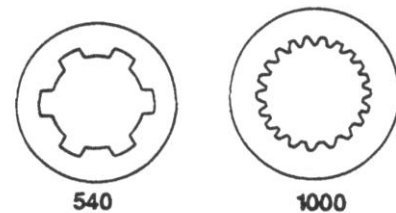
### **NOTICE** CHOOSING CORRECT PTO SPEED

MODEL – HR400 – 1000 RPM ONLY

**Drive components can be damaged.**

Under no circumstances should a machine equipped for 540 rpm PTO be operated by a tractor equipped with 1000 rpm PTO.

Nor should a 1000 rpm PTO machine be operated with a tractor equipped with 540 rpm PTO.

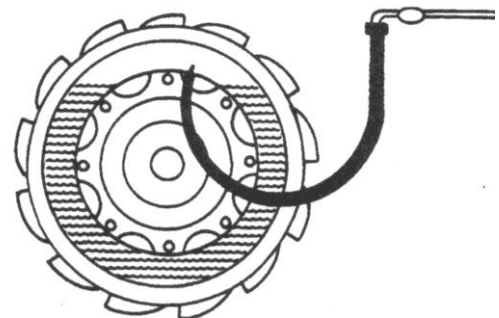


### **NOTICE** BALLASTING THE TRACTOR

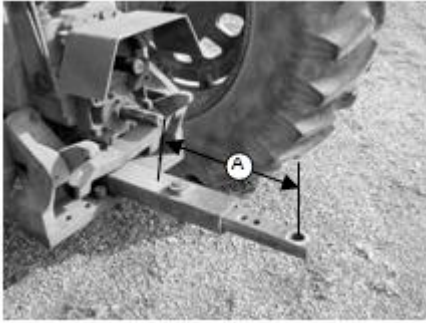
**Do not tow loads that weigh more than twice the tractor weight.**

(See Recommended Maximum Towing Speed in Transport section.)

To ensure proper stability, adjust ballast and wheel spacing according to tractor operator's manual.







### SAFETY INSTRUCTIONS

## POSITIONING DRAWBAR

**Tractor PTO and machine driveline can be damaged. Be sure drawbar length is properly set. If equipped with clevis, remove it. Lock drawbar along tractor centerline with offset down.**

Remove clevis if equipped.

### PTO Speed

### Dimension (A)

1000 rpm x 1-3/8 406 mm (16in.)

1000 rpm x 1-3/4 508 mm (20in.)

Adjust drawbar length (A) to help prevent driveline damage.

A tractor drawbar support is required on tractors with a drawbar size of 1-1/2 x 3 in. minimum

### SAFETY INSTRUCTIONS

## USING SELECTIVE CONTROL LEVERS TO CONTROL FLOOR SPEED

Floor and moving panel speed can be controlled by using tractor selective control lever to extend and retract cylinders.

Adjust selective control valve lever to provide the slowest operating speed. (See your tractor operator's manual). Maximum hydraulic oil flow through the spreader control valve is 6.8 gpm. Trying to force through more oil than this, may create a pressure drop.

### SAFETY INSTRUCTIONS

## SETTING HYDRAULIC SPEED ENDGATE OPERATION

**Excessive operating speed may cause machine damage. Adjust selective control valve lever to provide correct operating speed.**

Adjust selective control valve lever, it should take two to three seconds to fully extend or retract the cylinder. (See your tractor operator's manual).

### SAFETY INSTRUCTIONS

## CHECKING TRANSMISSION/HYDRAULIC OIL LEVEL

Cycle all hydraulic cylinders fully two or three times.

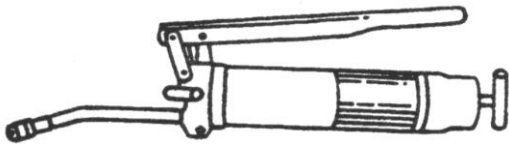
Fully retract all cylinders.

Check transmission/hydraulic oil level. (See your tractor's Operator's Manual)

PREPARING THE SPREADER

NOTICE LUBRICATING THE MACHINE

Be sure the machine has been adequately lubricated.  
(See Lubrication and Maintenance page.)



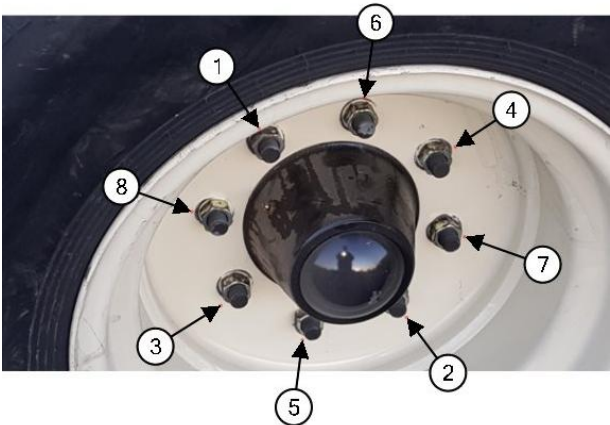
SAFETY INSTRUCTIONS TIGHTENING WHEEL HARDWARE

Operating the spreader with loose wheel hardware will damage the hub or wheel. Tighten hardware after initial transport, after one hour of operation and every fifty hours thereafter.

Tighten to 240 lb-ft of dry torque (180 lb-ft wet) in the sequence shown.

| Tire Size               | Wheel Size   | Tire Pressure |
|-------------------------|--------------|---------------|
| 16.5 x 16.1 Implement   | 14.00 x 16.1 | 48 psi        |
| 11 R 22.5               | 22.5 x 8.25  | 75 psi        |
| 385/65 R 22.5           | 22.5 x 11.75 | 115 psi       |
| 500/50-22.5 Implement   | 22.5 x 16    | 40 psi        |
| 425/65R22.5 Truck Tires | 22.5 x 13    | 115 psi       |

(Additional options may be available, please contact your dealer for more information)



SAFETY INSTRUCTIONS CHECKING TIRES

1. Check tires daily for damage or noticeably low pressure.
2. Repair any cuts or breaks as soon as possible.
3. Protect tires from exposure to sunlight and petroleum products or chemicals.



SAFETY  
INSTRUCTIONS**OPERATING THE BEATER**

To start beater, engage PTO lever slowly, at low engine rpm.

To stop beater, disengage PTO. (See your tractor's Operator's Manual)

For best spreading results, operate the tractor engine at "PTO RATED" speed.

SAFETY  
INSTRUCTIONS**OPERATING THE ENDGATE**

**Contact of sliding floor/moving panel with endgate closed will cause damage. To avoid contact with moving panel, endgate must be raised fully.**

Operate the endgate with the second auxiliary control valve lever.

**Endgate is not a metering device.**

**Doing so may cause damage to the spreader.**

SAFETY  
INSTRUCTIONS**OPERATING SLIDING FLOOR  
MOVING PANEL USING METERING CONTROL VALVE**

To extend the sliding floor and moving panel lock control lever in operating position.

To retract the sliding floor/moving panel, move control lever in opposite direction.

See your tractor's operating manual for information on how to control flow rates of your hydraulic system.

Maximum hydraulic oil flow through the spreader control valve is 6.8 gpm. Trying to force through more oil than this, may create a pressure drop.

## ATTACHING THE SPREADER

### **⚠ CAUTION** ATTACHING THE SPREADER

Help prevent personal injury caused by unexpected movement of the machine. Engage parking brake and/or place transmission in "PARK", shut off engine, and remove key before working around hitch.

1. Attach with a 1-1/8 pin and secure.

**Shorten safety chain to allow only enough slack required for turning.**

2. Lock safety hook onto chain.



### **SAFETY INSTRUCTIONS**

## STORING JACKSTAND

1. After the spreader is attached to the tractor and secure, remove jackstand from lift position.
2. Store jackstand as shown and secure with pin.

### **⚠ CAUTION** CONNECT HYDRAULIC HOSES

To avoid injury from escaping hydraulic oil under pressure, relieve the pressure in the system by shutting off the tractor and moving remote cylinder operating levers in both directions before attaching hoses to or detaching hoses from the breakaway couplers.



### **SAFETY INSTRUCTIONS**

## CONNECT ENDGATE HYDRAULIC HOSES

1. Connect pressure hose to pressure port of hydraulic remote coupler.
2. Connect return hose to return port of hydraulic remote coupler.



## SAFETY INSTRUCTIONS

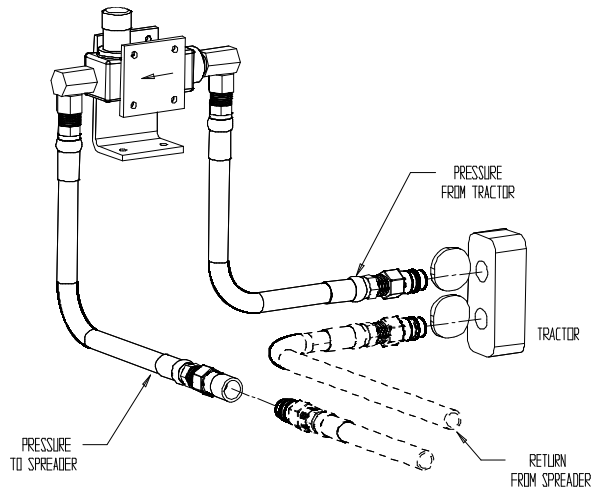
### CONNECTING HYDRAULIC HOSES

#### TRACTOR WITH CLOSED CENTER HYDRAULIC SYSTEM

Attach control valve to tractor where it can be reached by the operator.

Attach hoses accordingly.

(Diagram shows unloading configuration, flow reverses to retract.)



## SAFETY INSTRUCTIONS

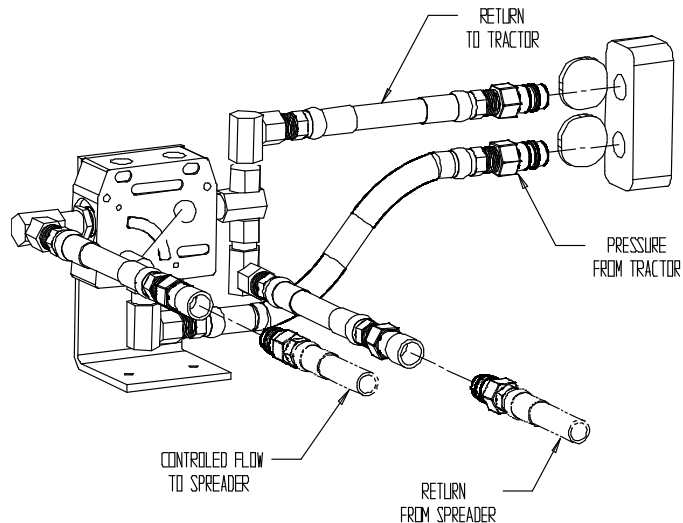
### CONNECTING HYDRAULIC HOSES

#### TRACTOR WITH OPEN CENTER HYDRAULIC SYSTEM

Attach control valve to tractor where it can be reached by the operator.

Attach hoses accordingly.

(Diagram shows unloading configuration, flow reverses to retract.)



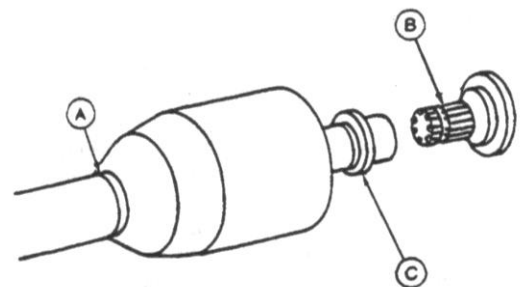
## SAFETY INSTRUCTIONS

### ATTACHING DRIVELINE

Avoid causing damage to shielding,

**DO NOT** use bell on driveline to lift driveline into position.

1. Support driveline, cradling it in your hand.
2. Rotate driveline (C) or tractor PTO (B) to align splines.
3. Pull collar (C) rearward and push forward on bell (A) to engage driveline yoke with tractor PTO (B).
4. Pull back on PTO driveline shielding to be sure driveline is locked. **DO NOT** pull on collar, this will release latch.





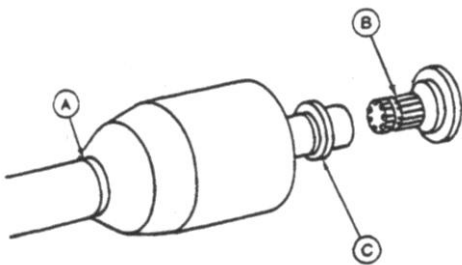
## DETACHING THE SPREADER



### SAFETY INSTRUCTIONS

## DETACHING SPREADER

1. Secure jack stand in lift position
2. Detach safety chain
3. Remove hitch pin
4. Disconnect hoses. Store on spreader



### SAFETY INSTRUCTIONS

## DETACHING DRIVELINE

1. Support driveline (A) and pull rearward on collar (C) to release driveline from tractor PTO (B).
2. When possible store driveline in driveline cradle provided with machine.
3. Replace tractor PTO shields.



SAFETY  
INSTRUCTIONS

## TOWING LOADS

**Braking to stop towed loads from transport speeds can cause the towed load to swerve and upset. Reduce speed if towed load is not equipped with brakes and weighs more than the tractor.**

*Follow recommended speed-weight ratio guidelines:*

- Maximum speed is 20 mph (32 km/h) when towing loads equal to or less than the weight of the tractor.
- Reduce speed to 10 mph (16 km/h) when towing loads more than or up to double the tractor weight.
- **DO NOT** tow loads that exceed double the tractor weight.
- Use additional caution when towing loads under adverse road surface conditions (i.e. slippery or rough), when turning and/or on inclines.
- For proper tractor size and towing speed see the following “Recommended Maximum Towing Speed” chart.
- If necessary, add ballast as described in your tractor’s Operator’s Manual.

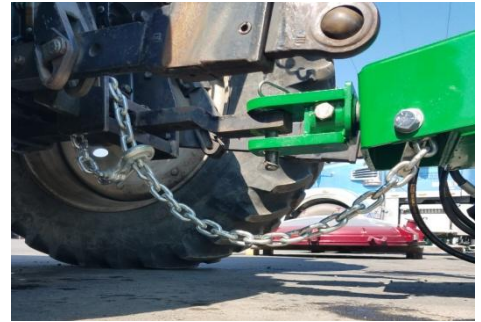


## TRANSPORT

### SAFETY INSTRUCTIONS

#### USING A SAFETY CHAIN

A safety chain will help control drawn equipment should it accidentally separate from the drawbar while transporting. Using the appropriate adapter parts, attach the chain to the tractor drawbar support or other specified anchor location. Provide only enough slack in the chain to permit turning. See your Pik Rite dealer for a chain with a strength rating equal to or greater than the gross weight of the towed machine.



### NOTICE

#### LIGHTING

When transporting the machine on a road or highway at night or during the day, use accessory lights and devices for adequate warning to operators of other vehicles. Check local governmental regulations. Keep safety items in good condition. Replace missing or damaged items.

(Contact your Hydra-Pull Dealer for available lighting kit)



**NOTICE****RECOMMENDED MAXIMUM TOWING SPEED**

| Tractor Weight   | *          | **         | ***        | ****       |
|------------------|------------|------------|------------|------------|
| (0-2997 lb)      | Do Not Tow | Do Not Tow | Do Not Tow | Do Not Tow |
| (2998-5950 lb)   | Do Not Tow | Do Not Tow | Do Not Tow | Do Not Tow |
| (5951-11021 lb)  | Do Not Tow | Do Not Tow | Do Not Tow | Do Not Tow |
| (11022-12123 lb) | Do Not Tow | Do Not Tow | Do Not Tow | Do Not Tow |
| (12124-14769 lb) | Do Not Tow | Do Not Tow | Do Not Tow | Do Not Tow |
| (14770-22044 lb) | Do Not Tow | Do Not Tow | Do Not Tow | Do Not Tow |
| (22045-24910 lb) | (20 mph)   | (10 mph)   | (10 mph)   | (10 mph)   |
| (24911-29540 lb) | (20 mph)   | (10 mph)   | (10 mph)   | (10 mph)   |
| (29541 lb-Up)    | (20 mph)   | (10 mph)   | (10 mph)   | (10 mph)   |

*\*Base Spreader Empty Load*

*\*\*Load struck level consisting of manure with high liquid content.*

*Calculated at 70 lb/cu ft*

*\*\*\*Load piled 381 mm (15 in.) above beater consisting of semi-solid type manure*

*Calculated at 55 lb/cu ft*

*\*\*\*\*Load piled at 15 in. above optional upper beater consisting of semi-solid type manure.*

*Calculated at 55 lb/cu ft*

**COMBINED WEIGHT OF SPREADER AND LOAD**

## OPERATING THE SPREADER

### SAFETY INSTRUCTIONS

### PREOPERATING CHECKS

1. Be sure spreader does not contain any foreign objects
2. Check for correct hydraulic hookup. Raise endgate fully. Engage beaters, engage apron chain
3. Disengage apron chain, disengage beaters
4. Close endgate

### CAUTION LOADING THE SPREADER

**Do not place rocks, timbers, or other solid objects in the spreader. Objects of this nature can damage the spreader and could also be thrown great distances causing possible injury to anyone standing in the vicinity.**

Load front of spreader first, distributing load evenly.

When operating without an endgate, avoid loading manure against the beater.



### CAUTION PREPARE TO UNLOAD THE SPREADER

**Help prevent personal injury. Be sure no one is near spreader and tractor before operating.**

Start beater by engaging PTO slowly at low engine rpm. Increase to “PTO RATED” speed.

**For best spreading results, operate tractor at “PTO RATED” speed.**

**Do not operate apron chain without running the beaters as this may damage the spreader.**



### **NOTICE** RAISE ENDGATE

**Contact of apron chain with endgate will cause damage. To avoid contact with apron chain, endgate must be raised fully.**

The endgate closes off the back end of the spreader to contain manure with high liquid content.

The endgate also prevents solid material from being piled tight against the beater.



### **SAFETY INSTRUCTIONS**

### **UNLOADING SPREADER USING METERING VALVE**

1. Set flow control on tractor hydraulics obtain desired rate of unload speed.

**Rate of spread is affected by both ground speed and unload speed. Experience will help you determine both gear selection and control knob setting.**

2. When spreader is empty, disengage apron chain, disengage PTO, and lower endgate.

### **SAFETY INSTRUCTIONS**

### **PRODUCING GOOD SPREADING RESULTS**

1. Operate tractor engine at “PTO RATED” speed.
2. Do not overload beater. A clumpy spread pattern will result from too fast of an unload rate.
3. When operating without an endgate, avoid loading material against the beater. Otherwise, large clumps of material will be thrown out during the first few turns of the beater.

### **NOTICE** CLEANING SPREADER IN COLD WEATHER

When operating the spreader during extended periods of subfreezing temperatures, frozen material may build up on steel surfaces. This can prevent the beater from moving.

After completing spreading for the day, use the following cleaning procedure.

**Cleaning is only necessary during extended periods of subfreezing temperatures.**

Remove material buildup from endgate panel. Keep endgate arms clean to prevent freezing to side rails. Remove debris from sliding floor, pusher tracks, and beater pan. Periodically check inside the pusher door and remove debris as necessary.

## OPERATING THE SPREADER

### **NOTICE** CLEAN WALKING BEAM

When tire valve stems are mounted towards the inside, clean top of walking beams to prevent valve stem damage.



### **NOTICE** WARMING HYDRAULIC OIL TEMPERATURES BELOW 0°F (-18°C)

It is necessary to warm the hydraulic oil for proper spreader operation.

Follow the procedures in your tractor's Operator's Manual for warming hydraulic oil.

The following procedures apply only to tractors with a closed center hydraulic system.



### **NOTICE** BYPASSING SPREADER CONTROL VALVE

There will be a large hydraulic oil pressure drop across the auxiliary flow control valve when the oil is cold. Oil pressure available to hydraulic cylinders may be too low.

Try cycling the cylinders several times slowly so the cold oil in the cylinders is mixed with the warm oil in the tractor. In the event of extreme cold; you may need to bypass the control valve to do this. Be sure you begin by moving the cylinders very slowly.

Reconnect hoses to flow control valve.





## **⚠ CAUTION** LUBRICATING AND MAINTAINING SPREADER

Help prevent personal injury caused by unexpected movement of the machine. If spreader is connected to tractor, disengage PTO, engage parking brake and/or place transmission in "PARK", shut off engine, and remove key. If spreader is detached, block wheels and use safety stands.

Replace all shields after lubricating or servicing.

## **NOTICE** OBSERVING INTERVALS

The intervals recommended are based on normal conditions. Severe or unusual conditions may require more frequent attention.

## **NOTICE** SELECTING GREASE

Depending upon the expected air temperature range during the service interval, use grease as shown on the adjusting temperature chart.

SAE-Multipurpose High Temperature Grease with Extreme Pressure [EP] Performance with 3 to 5% molybdenum disulfide.

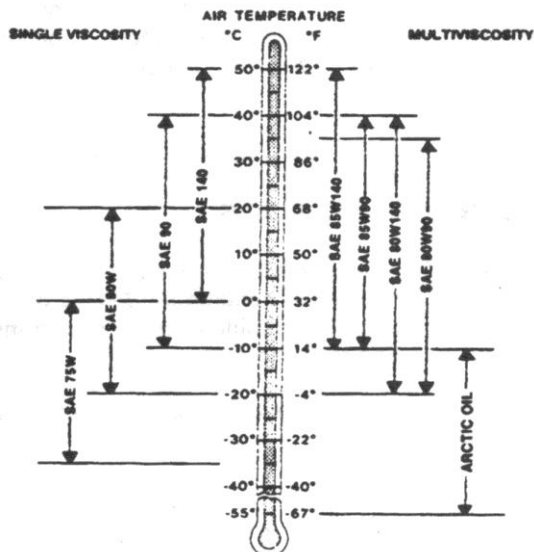
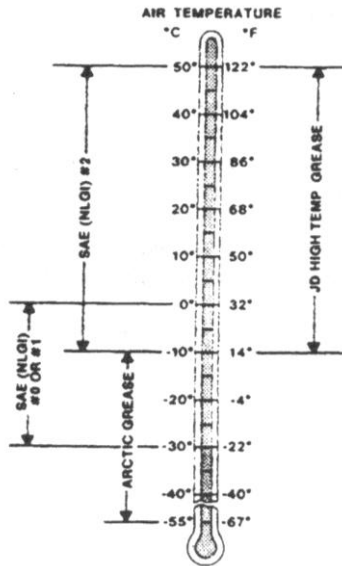
Moly-type grease is recommended, however, if not available, multipurpose grease is acceptable.

## **NOTICE** SELECTING GEAR CASE OIL

Depending upon the expected air temperature range during the drain interval, use oil viscosity shown on the adjoining temperature chart.

- API Service Classification GL-5
- Military Specification MIL-L-2105B
- Military Specification MIL-L-2105C

At temperatures below -35° [-31°], use arctic oils such as those meeting Military Specifications MIL-G-10324A.



## LUBRICATION AND MAINTENANCE

### NOTICE SERVICE INTERVALS

- Change gearbox lubricant every 6,000 loads

#### EVERY 8 HOURS

- Lubricate driveline
- Check gear case oil level
- Check tires
- Check axle hub oil

#### EVERY 40 HOURS

- Lubricate top beater bearings
- Grease apron chain drive bearings & sprockets

#### EVERY 50 HOURS

- Tighten wheel hardware
- Lubricate walking beam pivots

#### EVERY 250 HOURS

- Lubricate endgate pivots

#### SERVICE AS REQUIRED

- Adjust apron chain tension
- Slip the clutch

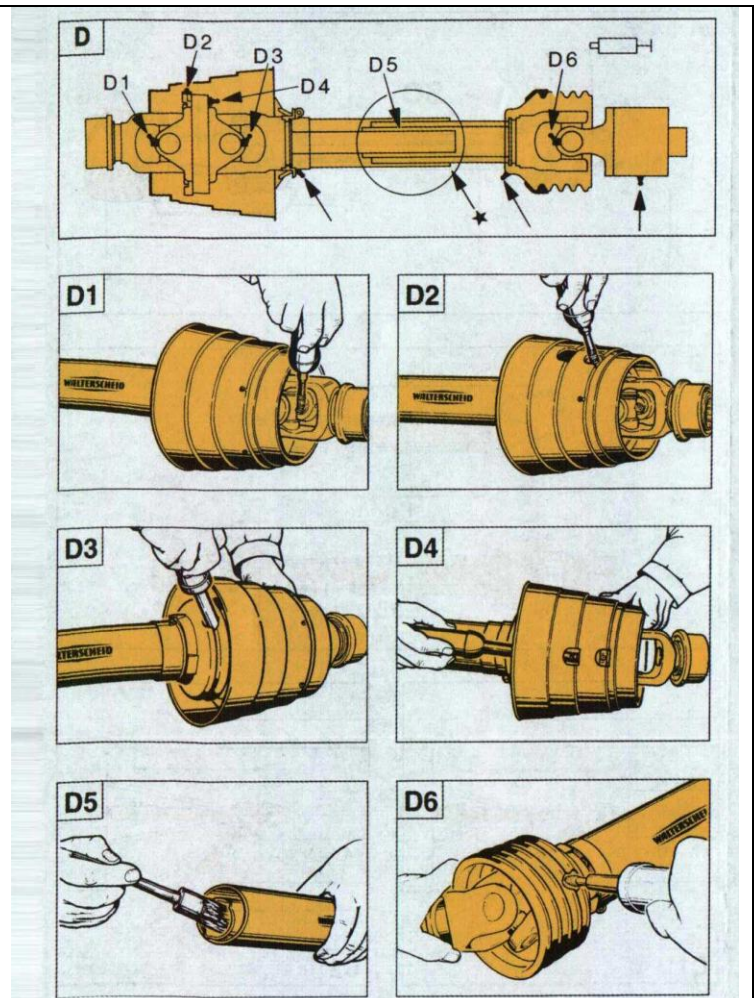
In addition to the above referenced information, you are working with a central lube CV design on the primary that contains a special lubrication provision that needs to be well defined for the user so that extended life on the CV can be achieved.

The key point is that each CV has one zerk in a bearing cap and it is this zerk that is most important since it feeds the inboard cross kit as well as the the ball and socket of the CV. The user needs to understand that the zerk in the cap should receive **15-20 pumps** of grease each day while the other zerks in the joint

CV housing and telescoping members can operate with 5-6 pumps or until the seals purge. The plastic zerks feeding the shielding should also receive 3-4 pumps daily if shields are being restrained.

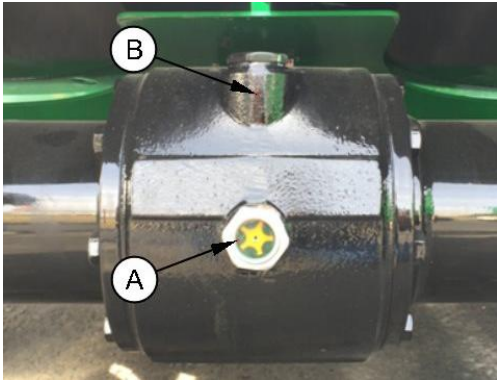
Primary Driveline (to Tractor) Lubricate fittings D1 through D6 every eight hours of operation.

Secondary Driveline (under spreader) Lubricate as above including overrunning clutch.



**NOTE:** Lubrication step D5 is only necessary when driveline does not have grease fitting. Separate front and rear halves of driveline and brush with grease.

## LUBRICATION AND MAINTENANCE



### NOTICE

#### CHECK GEAR CASE OIL LEVEL

With spreader on level ground, check oil level at the sight glass on the center gearcase "A"

Add recommended oil as needed. (See Selecting Gear Case Oil)  
To add oil, remove fill cap at the top of the gearcase "B"

### NOTICE

#### GREASE TOP BEATER BEARINGS

Grease the two bearings at the top of the vertical beaters every 8 hours of operation. Rear grease bank on beater side panel



### SAFETY INSTRUCTIONS

#### CHECKING TIRES

1. Check tires daily for damage or noticeably low pressure.
2. Repair any cuts or breaks as soon as possible.
3. Protect tires from exposure to sunlight and petroleum products or chemicals.



| <u>Tire Size</u>        | <u>Wheel Size</u> | <u>Tire Pressure</u> |
|-------------------------|-------------------|----------------------|
| 16.5 x 16.1 Implement   | 14.00 x 16.1      | 48 psi               |
| 11 R 22.5               | 22.5 x 8.25       | 75 psi               |
| 385/65 R 22.5           | 22.5 x 11.75      | 115 psi              |
| 500/50-22.5 Implement   | 22.5 x 16         | 40 psi               |
| 425/65R22.5 Truck Tires | 22.5 x 13         | 115 psi              |



## LUBRICATION AND MAINTENANCE

### SAFETY INSTRUCTIONS

### LUBRICATE WALKING

#### BEAM PIVOTS

1. Place a jack under the spreader main frame.
2. Raise spreader enough to relieve weight from walking beam.
3. Lubricate grease bank (A) with Moly High Temperature/Extreme Pressure Grease.



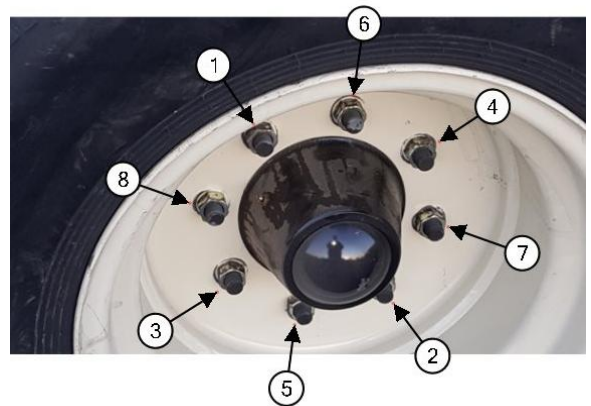
### NOTICE

### TIGHTENING WHEEL

#### HARDWARE

Operating the spreader with loose wheel hardware will damage the hub or wheel. Tighten hardware after initial transport, after one hour of operation, and every fifty hours thereafter.

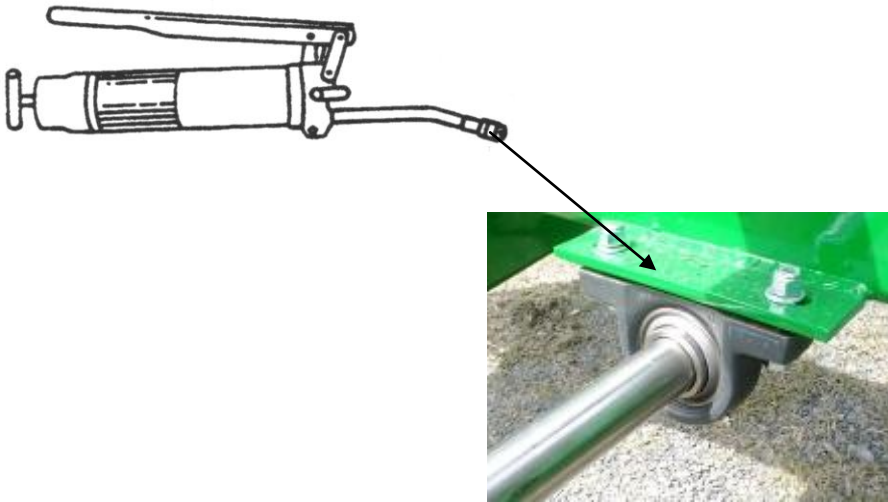
Tighten to 240 lb.-ft. in the sequence shown.



### **NOTICE** LUBRICATE THE THREE PILLOW BLOCKS

Located under the spreader, they carry the main power shaft, using central grease location

Lubricate grease fitting with Moly High Temperature/Extreme Pressure Grease



### **NOTICE** MAINTAINING SLIP CLUTCH, WALTERSCHEID

The clutch is preset and is not field adjustable

If you determine that your slip clutch needs maintenance or adjustment, contact your dealer



### **NOTICE** ADJUST SLIDING FLOOR/MOVING PANEL SEALS

The rubber seals on the moving panel and sliding floor are adjustable.

Properly adjusted seals will minimize leakage and ensure a clean wiping action on the sides and floor.

Inspect adjust, or replace seals as necessary.

SPECIFICATIONS

TRACTOR SIZE

Minimum recommended 100 hp PTO

WEIGHT

Spreader, Complete with Implement tires  
And all Attachments 9,675 lb

LOAD CAPACITY 23,000 lb

VOLUME CAPACITY

Struck Level 249 cu. ft.  
Heaped Load 418 cu. ft.

BEATER SPEED 420 rpm

UNLOADING SPEED

Infinitely Variable 0-16 ft/min

DRIVELINE

Shielded 1000 rpm

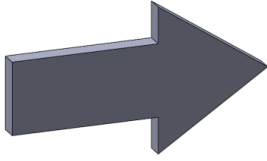
ATTACHMENTS

Control For Fender or ROPS  
Open Center Valve With Control Endgate

SPECIFICATIONS AND DESIGN SUBJECT TO CHANGE WITHOUT NOTICE



## DIRECTION ARROWS



ARROWS ARE USED WITH ILLUSTRATIONS TO INDICATE THE FRONT OF THE UNIT. "RIGHT-HAND" AND "LEFT-HAND" SIDES ARE DETERMINED BY FACING THE DIRECTION OF MACHINE FORWARD TRAVEL.

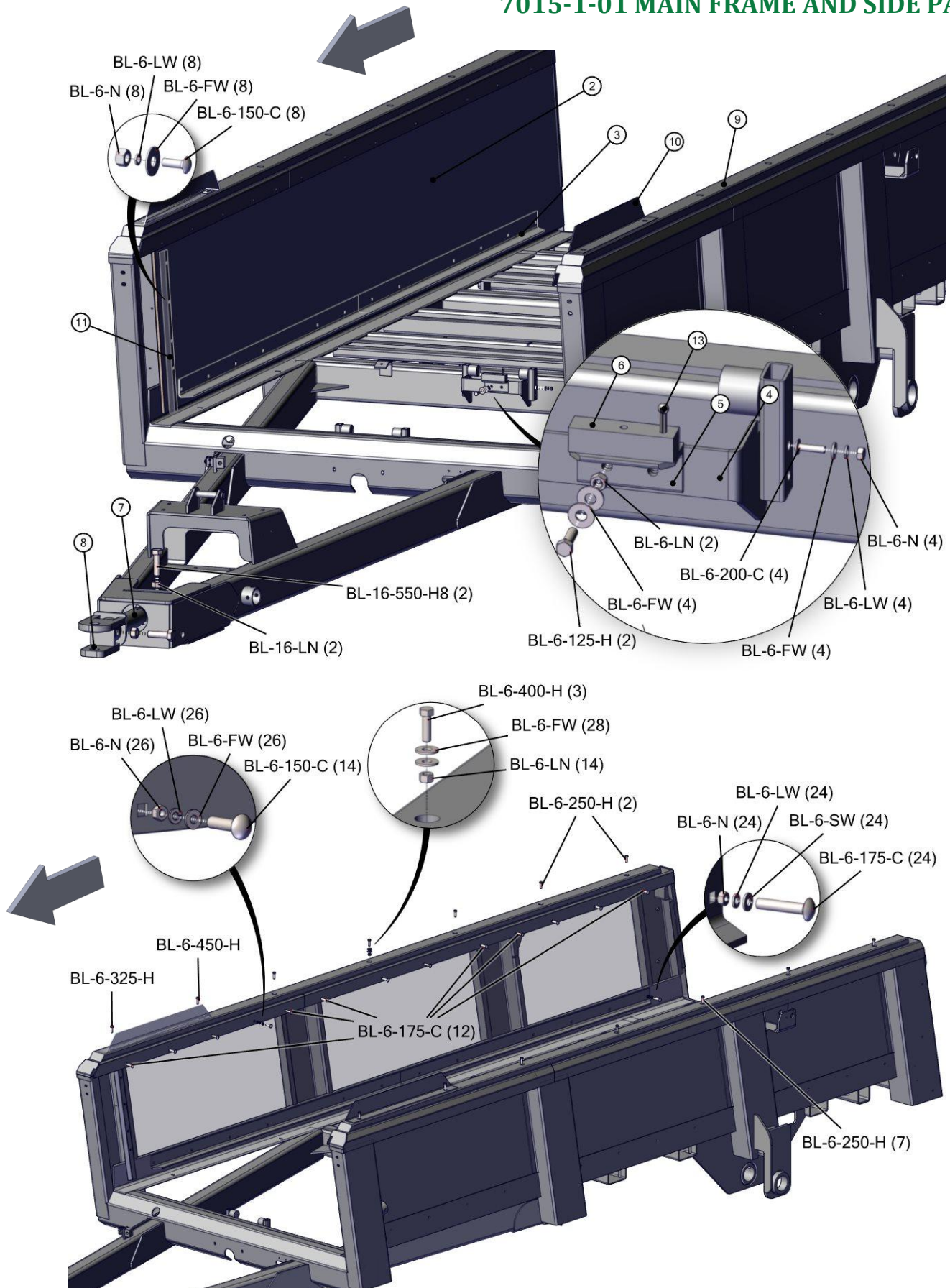
## REFERENCE NUMBER IDENTIFICATION

| REF NO. | DESCRIPTION                                      |
|---------|--|
| 000-099 | PARTS USED FOR ASSEMBLY                          |
| 100-199 | BOLTS AND FASTENERS                              |
| 200-299 | ELECTRICAL COMPONENTS                            |
| 800-899 | REPLACEMENT PARTS<br>(USED TO REPAIR ASSEMBLIES) |

## 7015-1-01 MAIN FRAME AND SIDE PANELS

| REF | PART         | DESCRIPTION                          | QTY | WILL FIT SN | REMARKS |
|-----|--------------|--------------------------------------|-----|-------------|---------|
| 1   | PR70057      | Main Frame, HR400                    | 1   |             |         |
| 2   | PR70063      | Panelam, Side, HR400                 | 2   |             |         |
| 3   | PR70065      | Formed Angle, Slidng Floor Guide     | 2   |             |         |
| 4   | PR70091      | Floor Cyl Support, Bracket           | 1   |             |         |
| 5   | PR70092      | Floor Cyl Support, Angle             | 1   |             |         |
| 6   | PR32639      | Support, Cylinder, UHMW              | 1   |             |         |
| 7   | PR63101      | Hitch Shaft, Hardened, Long          | 1   |             |         |
| 8   | PR70097      | Hitch                                | 1   |             |         |
| 9   | PR70394      | Top Rail Poly Bumper, HR 400, HR 550 | 2   |             |         |
| 10  | PR70098      | Splash Guard, Spreader               | 2   |             |         |
| 11  | PR70137      | Edge Cover, Panelam, RH              | 1   |             |         |
| 12  | PR70138      | Edge Cover, Panelam, LH              | 1   |             |         |
| 13  | PIN-C4-32    | Cotter Pin .25 x 2                   | 2   |             |         |
| 100 | BL-6-125-H   | 3/8-16 X 1-1/4 HHCS G5 ZC            | 2   |             |         |
| 101 | BL-6-150-C   | 3/8-16 X 1-1/2 CARRIAGE BOLT G5 ZC   | 22  |             |         |
| 102 | BL-6-175-C   | 3/8-16 X 1-3/4 CARRIAGE BOLT G5 ZC   | 36  |             |         |
| 103 | BL-6-200-C   | 3/8-16 X 2 CARRIAGE BOLT G5 ZC       | 4   |             |         |
| 104 | BL-6-250-H   | 3/8-16 X 2-1/2 HH C/S G5 ZC          | 9   |             |         |
| 105 | BL-6-325-H   | 3/8 UNC X 3 1/2 HH C/S BOLT GR5 ZINC | 1   |             |         |
| 106 | BL-6-400-H   | 3/8-16 X 4 HEX CAP G5 ZC             | 3   |             |         |
| 107 | BL-6-450-H   | 3/8 x 4 1/2 HEX BOLT                 | 1   |             |         |
| 108 | BL-6-FW      | 3/8 USS FW ZC                        | 70  |             |         |
| 109 | BL-6-LW      | 3/8 SPLIT LW ZC                      | 62  |             |         |
| 110 | BL-6-SW      | 3/8 SAE FW ZC                        | 24  |             |         |
| 111 | BL-6-LN      | 3/8-16 FIN H LN NE A563 GA ZC        | 16  |             |         |
| 112 | BL-6-N       | 3/8-16 HEX NUT ZC                    | 62  |             |         |
| 113 | BL-16-550-H8 | 1-8 X 5-1/2 BOLT HH C/S G8 ZC        | 2   |             |         |
| 114 | BL-16-LN     | 1 LN w/ NYLON INSERTS                | 2   |             |         |

## 7015-1-01 MAIN FRAME AND SIDE PANELS



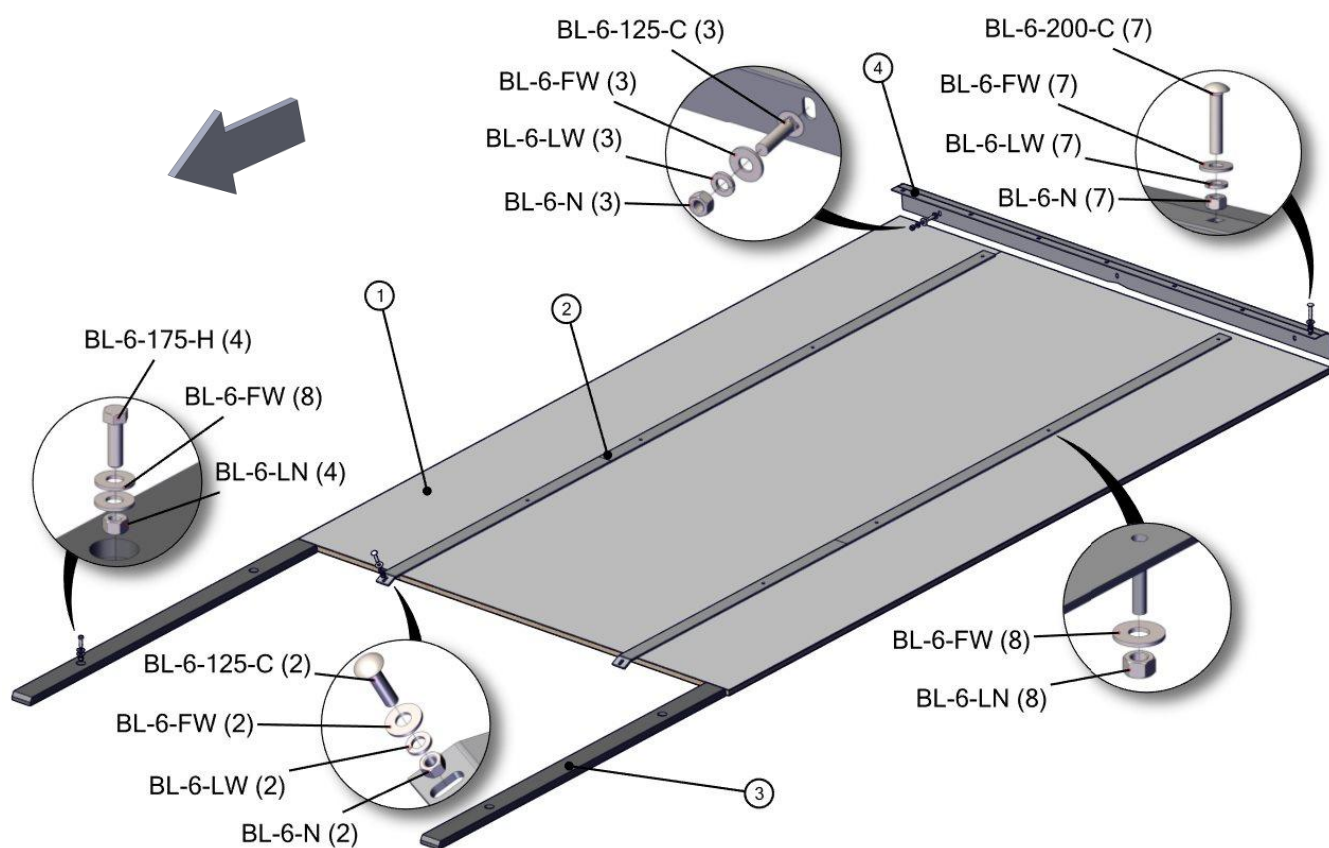


## 7015-1-01A OPT. MAIN FRAME, SINGLE WHEEL

| REF | PART         | DESCRIPTION                               | QTY | WILL FIT SN | REMARKS |
|-----|--------------|---|-----|-------------|---------|
| 1   | PR70300      | Main Frame, HR400, Single Wheel           | 1   |             |         |
| 2   | PR70063      | Panelam, Side, HR400                      | 2   |             |         |
| 3   | PR70065      | Formed Angle, Slidng Floor Guide          | 2   |             |         |
| 4   | PR70091      | Floor Cyl Support, Bracket                | 1   |             |         |
| 5   | PR70092      | Floor Cyl Support, Angle                  | 1   |             |         |
| 6   | PR32639      | Support, Cylinder, UHMW                   | 1   |             |         |
| 7   | PR63101      | Hitch Shaft, Hardened, Long               | 1   |             |         |
| 8   | PR70097      | Hitch                                     | 1   |             |         |
| 9   | PR70394      | Top Rail Poly Bumper, HR 400, HR 550      | 2   |             |         |
| 10  | PR70098      | Splash Guard, Spreader                    | 2   |             |         |
| 11  | PR70137      | Edge Cover, Panelam, RH                   | 1   |             |         |
| 12  | PR70138      | Edge Cover, Panelam, LH                   | 1   |             |         |
| 13  | PIN-C4-32    | Cotter Pin .25 x 2                        | 2   |             |         |
| 14  | PR34896      | Hose Clamp, 1/4 Hydraulic, 1/2' O.D. Hose | 6   |             |         |
| 100 | BL-6-125-H   | 3/8-16 X 1-1/4 HHCS G5 ZC                 | 2   |             |         |
| 101 | BL-6-150-C   | 3/8-16 X 1-1/2 CARRIAGE BOLT G5 ZC        | 22  |             |         |
| 102 | BL-6-175-C   | 3/8-16 X 1-3/4 CARRIAGE BOLT G5 ZC        | 36  |             |         |
| 103 | BL-6-200-C   | 3/8-16 X 2 CARRIAGE BOLT G5 ZC            | 4   |             |         |
| 104 | BL-6-250-H   | 3/8-16 X 2-1/2 HH C/S G5 ZC               | 9   |             |         |
| 105 | BL-6-325-H   | 3/8-16 X 3-1/2 HEX CAP G5 ZC              | 1   |             |         |
| 106 | BL-6-400-H   | 3/8-16 X 4 HEX CAP G5 ZC                  | 3   |             |         |
| 107 | BL-6-450-H   | 3/8 x 4 1/2 HEX BOLT                      | 1   |             |         |
| 108 | BL-6-FW      | 3/8 USS FW ZC                             | 70  |             |         |
| 109 | BL-6-LW      | 3/8 SPLIT LW ZC                           | 62  |             |         |
| 110 | BL-6-SW      | 3/8 SAE FW ZC                             | 24  |             |         |
| 111 | BL-6-LN      | 3/8-16 FIN H LN NE A563 GA ZC             | 16  |             |         |
| 112 | BL-6-N       | 3/8-16 HEX NUT ZC                         | 62  |             |         |
| 113 | BL-16-550-H8 | 1-8 X 5-1/2 BOLT HH C/S G8 ZC             | 2   |             |         |
| 114 | BL-16-LN     | 1 LN w/ NYLON INSERTS                     | 2   |             |         |

## 7015-1-02 MAIN FLOOR AND SLIDING FLOOR GUIDES

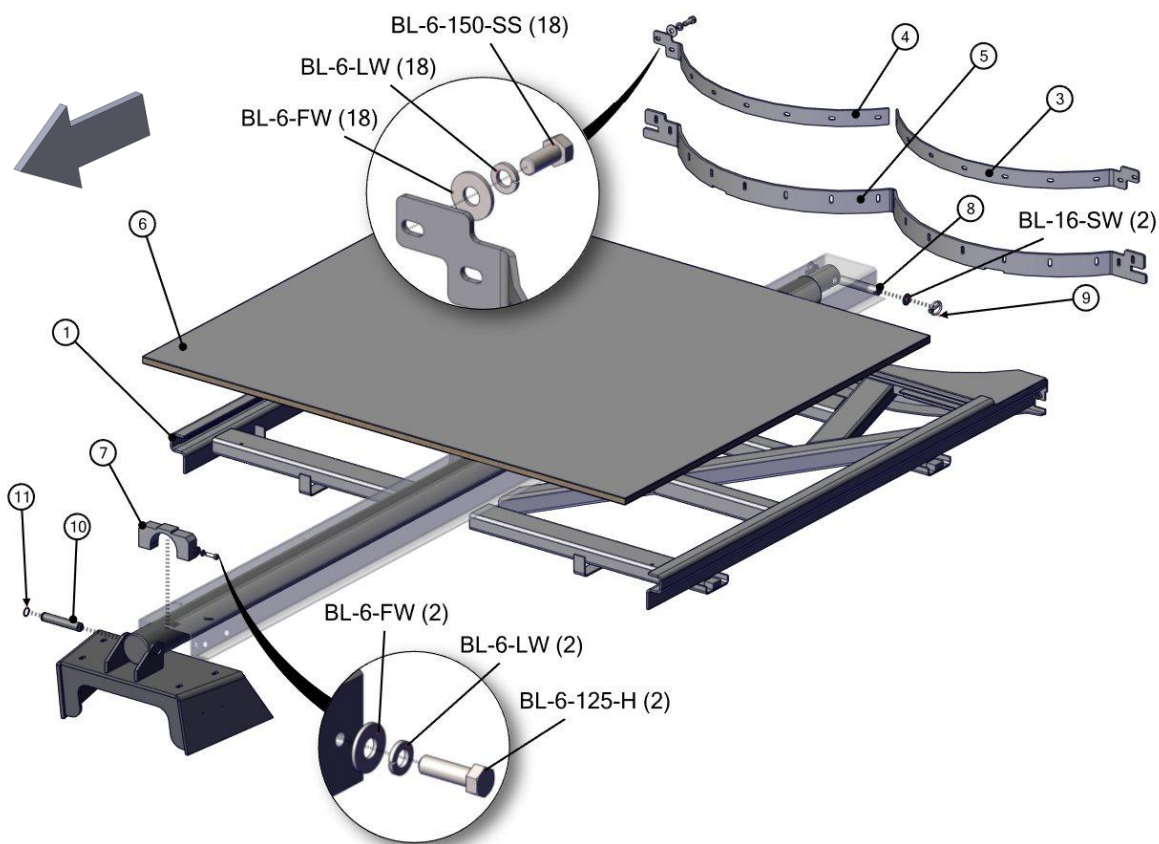
| REF | PART       | DESCRIPTION                            | QTY | WILL FIT SN | REMARKS |
|-----|------------|--|-----|-------------|---------|
| 1   | PR33279    | Panel, Main Floor, Spreader, 790, 1190 | 1   |             |         |
| 2   | PR70061    | Floor Strap                            | 2   |             |         |
| 3   | PR33358    | Slide, Wood, Front, Spreader           | 2   |             |         |
| 4   | PR70062    | Rear Edge Plate                        | 1   |             |         |
| 100 | BL-6-125-C | 3/8-16 X 1-1/4 CARRIAGE BOLT G5 ZC     | 5   |             |         |
| 101 | BL-6-175-H | 3/8-16 X 1-3/4 HHCS G5 ZC              | 4   |             |         |
| 102 | BL-6-200-C | 3/8-16 X 2 CARRIAGE BOLT G5 ZC         | 7   |             |         |
| 103 | BL-6-FW    | 3/8 USS FW ZC                          | 28  |             |         |
| 104 | BL-6-LW    | 3/8 SPLIT LW ZC                        | 12  |             |         |
| 105 | BL-6-LN    | 3/8-16 FIN H LN NE A563 GA ZC          | 12  |             |         |
| 106 | BL-6-N     | 3/8-16 HEX NUT ZC                      | 12  |             |         |





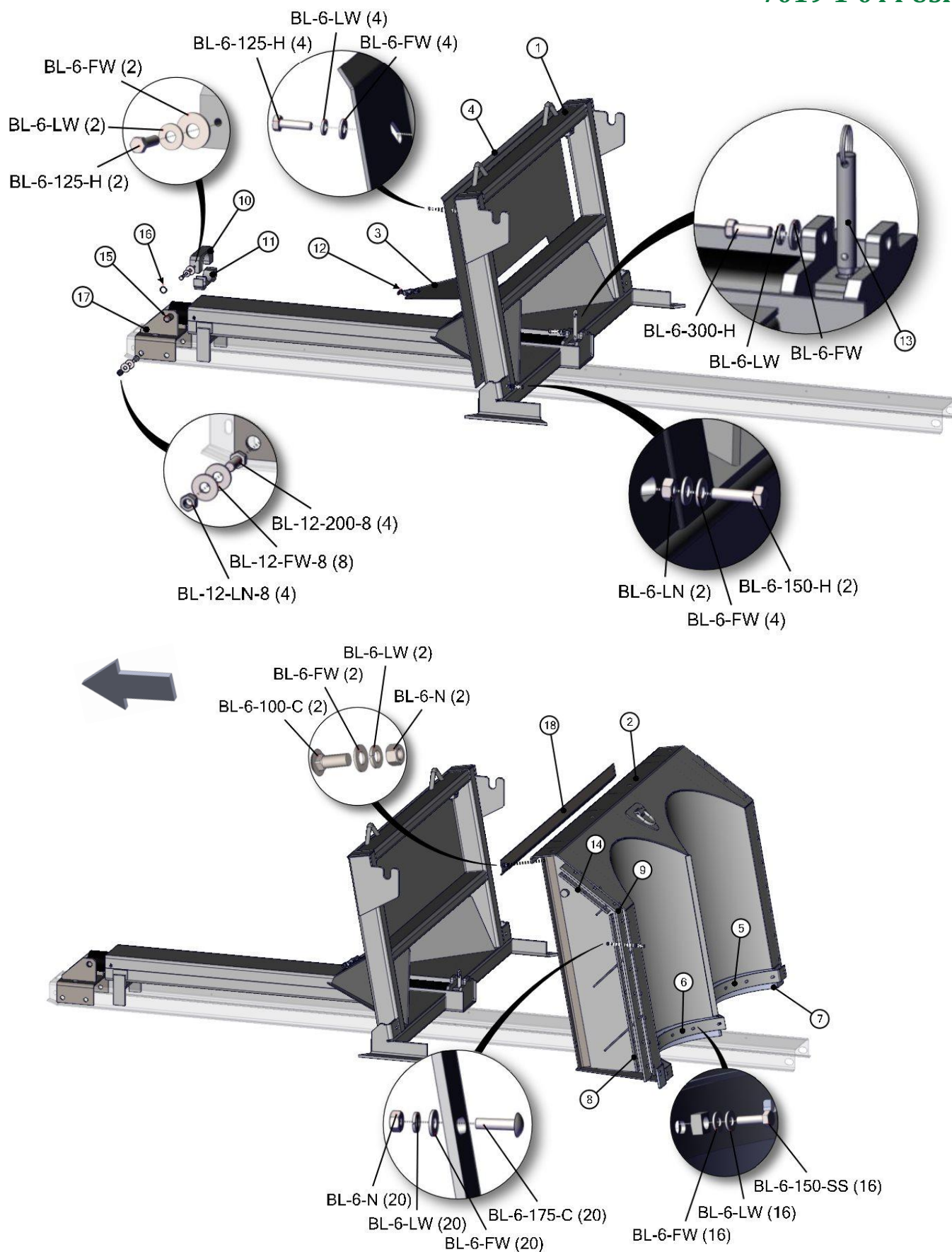
## 7015-1-03 SLIDING FLOOR

| REF | PART        | DESCRIPTION                                       | QTY | WILL FIT SN | REMARKS |
|-----|-------------|---|-----|-------------|---------|
| 1   | PR70058     | Sliding Floor Frame                               | 1   |             |         |
| 3   | PR70066-LH  | Sliding Floor Belting Bar                         | 1   |             |         |
| 4   | PR70066-RH  | Sliding Floor Belting Bar                         | 1   |             |         |
| 5   | PR70067     | Sliding Floor Belting                             | 1   |             |         |
| 6   | PR44533     | Panel, Sliding Floor, Spreader,790,1190           | 1   |             |         |
| 7   | PR70123     | Plastic Guide, Sliding Floor Cyl                  | 1   |             |         |
| 8   | PR70126     | 1 Pin x 8.0 usable, SS, 1/4 hole                  | 1   |             |         |
| 9   | PIN-250L    | 1/4 Lynch Pin                                     | 2   |             |         |
| 10  | PR30289     | Cylinder Pin                                      | 1   |             |         |
| 11  | PR58806     | Retaining Ring, 63/64 (.984) Shaft Size, External | 2   |             |         |
| 100 | BL-6-125-H  | 3/8-16 X 1-1/4 HHCS G5 ZC                         | 2   |             |         |
| 101 | BL-6-150-SS | 3/8-16 X 1-1/2 HEX CAP SS                         | 18  |             |         |
| 102 | BL-6-FW     | 3/8 USS FW ZC                                     | 20  |             |         |
| 103 | BL-6-LW     | 3/8 SPLIT LW ZC                                   | 20  |             |         |
| 104 | BL-16-SW    | 1 SAE FW  | 2   |             |         |



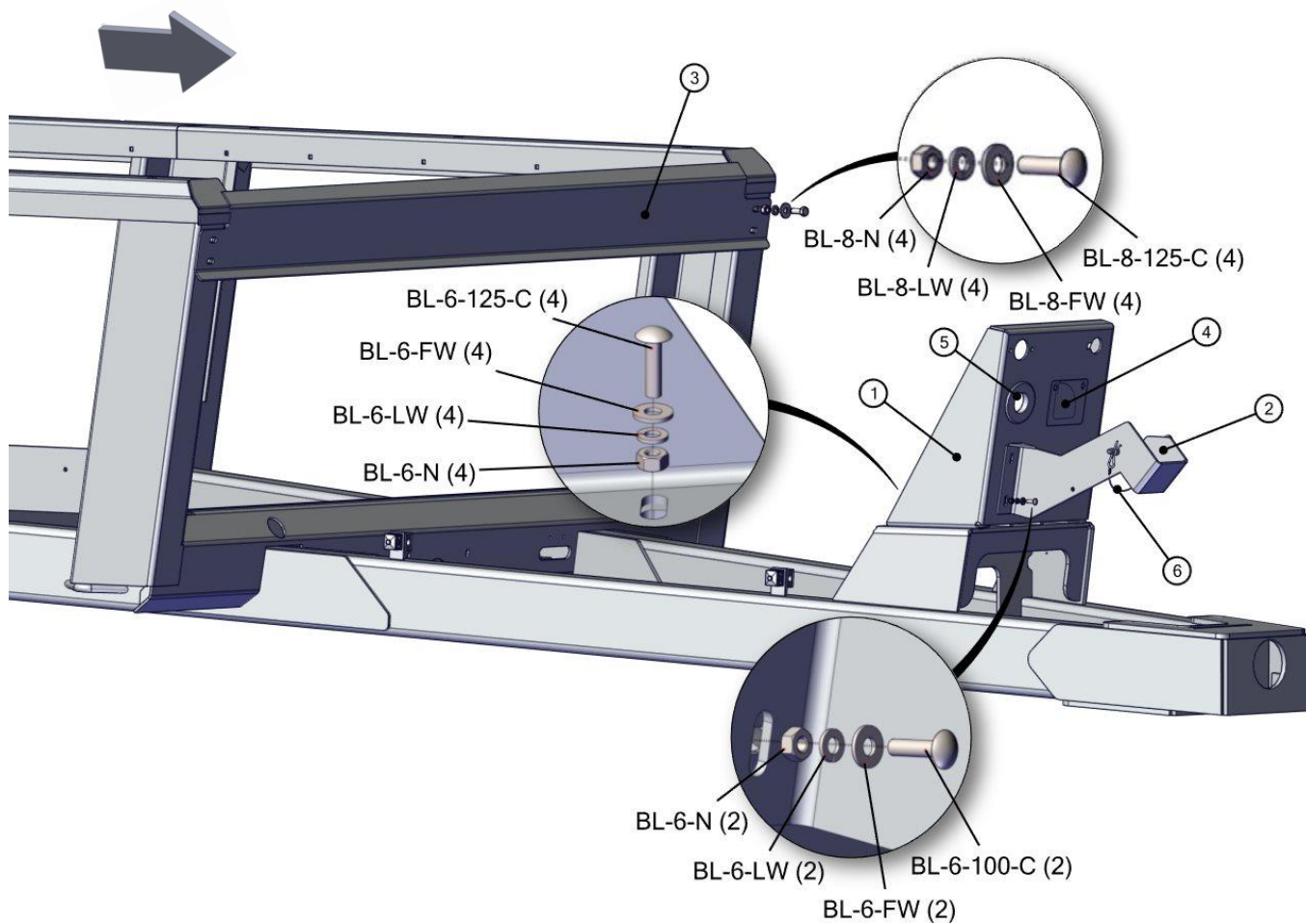
## 7019-1-04 PUSHER

| REF | PART        | DESCRIPTION  | QTY | WILL FIT SN | REMARKS |
|-----|-------------|--|-----|-------------|---------|
| 1   | PR70068     | Frame  | 1   |             |         |
| 2   | PR70458     | Pusher, HR 400, Universal Panels                   | 1   |             |         |
| 3   | PR70070     | Access Door, Cyl.                                  | 1   |             |         |
| 4   | PR70071     | Front Panel, Pusher                                | 1   |             |         |
| 5   | PR70460     | Backing Bar, LH                                    | 1   |             |         |
| 6   | PR70461     | Pusher Lower Backing Bar, RH                       | 1   |             |         |
| 7   | PR70459     | Pusher Lower Belting                               | 1   |             |         |
| 8   | PR70074     | Pusher Bar, Side                                   | 2   |             |         |
| 9   | PR70075     | Pusher Belting, Side                               | 2   |             |         |
| 10  | PR70124     | Plastic Guide, Pusher Cyl, Top                     | 1   |             |         |
| 11  | PR70125     | Plastic Guide, Pusher Cyl, Bott                    | 1   |             |         |
| 12  | LA-1530     | Medium Rubber T Latch Assembly                     | 1   |             |         |
| 13  | PIN-10-300  | 5/8' Pin SS, Quick Release, 3.00' usable           | 1   |             |         |
| 14  | PR70117     | Pusher Bar, Top                                    | 2   |             |         |
| 15  | PR30289     | Cylinder Pin                                       | 1   |             |         |
| 16  | PR58806     | Retaining Ring, 63/64' (.984) Shaft Size, External | 2   |             |         |
| 17  | PR23219     | Support, Cylinder Mount, Sliding Floor             | 1   |             |         |
| 18  | PR70458-C   | Panel, Pusher HR400                                | 1   |             |         |
| 100 | BL-6-175-C  | 3/8-16 X 1-1/4 CARRIAGE BOLT G5 ZC                 | 20  |             |         |
| 101 | BL-6-125-H  | 3/8-16 X 1-1/4 HHCS G5 ZC                          | 6   |             |         |
| 102 | BL-6-150-H  | 3/8-16 X 1-1/2 HEX CAP G5 ZC                       | 2   |             |         |
| 103 | BL-6-150-SS | 3/8-16 X 1-1/2 HEX CAP SS                          | 16  |             |         |
| 104 | BL-6-300-H  | 3/8-16 X 3 HH C/S BOLT G5 ZC                       | 1   |             |         |
| 105 | BL-6-FW     | 3/8 USS FW ZC                                      | 49  |             |         |
| 106 | BL-6-LW     | 3/8 SPLIT LW ZC                                    | 45  |             |         |
| 107 | BL-6-LN     | 3/8-16 FIN H LN NE A563 GA ZC                      | 2   |             |         |
| 108 | BL-6-N      | 3/8-16 HEX NUT ZC                                  | 22  |             |         |
| 109 | BL-12-200-8 | 3/4-10 X 2 HH C/S G8 ZC                            | 4   |             |         |
| 110 | BL-12-FW-8  | 3/4 FW G8  | 8   |             |         |
| 111 | BL-12-LN-8  | 3/4-10 LN w/ NYLON INSERTS G8                      | 4   |             |         |
| 112 | BL-6-100-C  | 3/8-16 X 1 CARRIAGE BOLT G5 ZC                     | 2   |             |         |

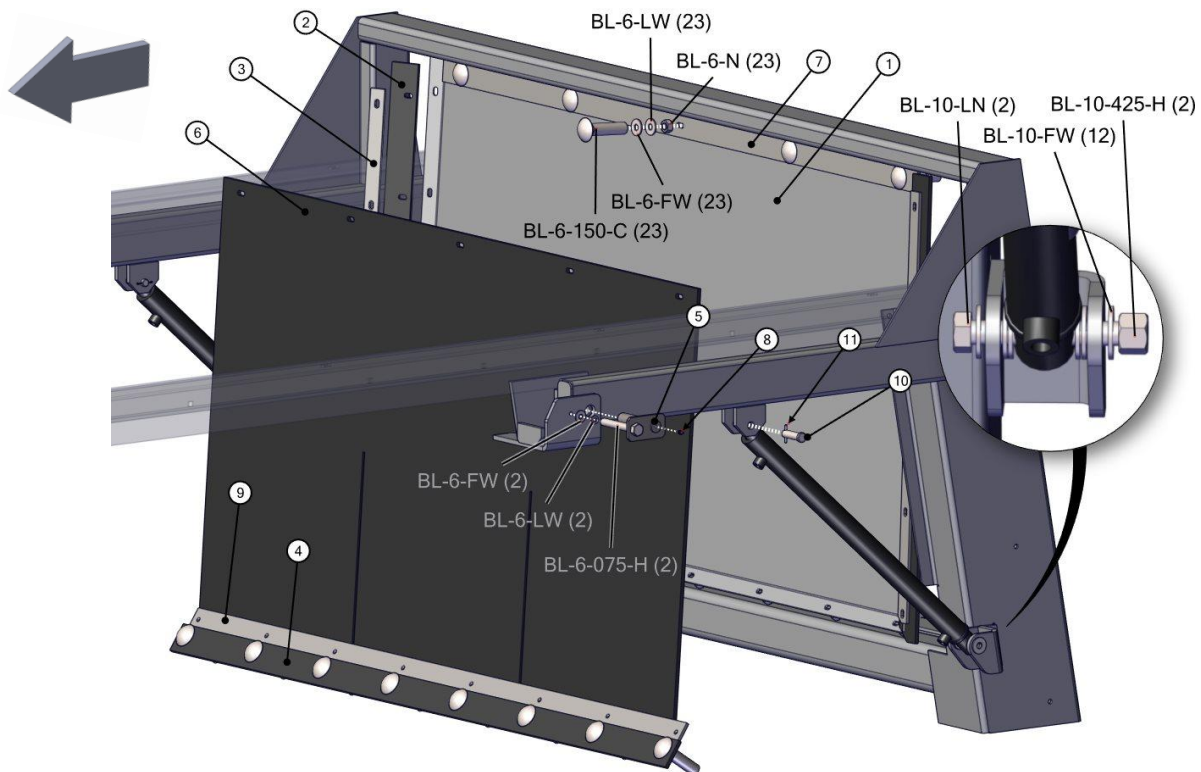


## 7015-1-05 FRONT PANELS AND SHIELDS

| REF | PART        | DESCRIPTION                              | QTY | WILL FIT SN | REMARKS |
|-----|-------------|--|-----|-------------|---------|
| 1   | PR70086     | Hose Mount, Spreader                     | 1   |             |         |
| 2   | PR70087     | PTO Holder                               | 1   |             |         |
| 3   | PR70088     | Front Upper Panel                        | 1   |             |         |
| 4   | PR70131     | Cover, Flow Control Cutout               | 1   |             |         |
| 5   | EL-0041     | 2 ID Grommet, 3.5 x 3/16 cutout          | 1   |             |         |
| 6   | PIN-500-575 | Pin 1/2 x 5-3/4 w/Lanyard & hairpin Clip | 1   |             |         |
| 100 | BL-6-100-C  | 3/8-16 X 1 CARRIAGE BOLT G5 ZC           | 2   |             |         |
| 101 | BL-6-125-C  | 3/8-16 X 1-1/4 CARRIAGE BOLT G5 ZC       | 4   |             |         |
| 102 | BL-6-FW     | 3/8 USS FW ZC                            | 6   |             |         |
| 103 | BL-6-LW     | 3/8 SPLIT LW ZC                          | 6   |             |         |
| 104 | BL-6-N      | 3/8-16 HEX NUT ZC                        | 6   |             |         |
| 105 | BL-8-125-H  | 1/2-13 X 1-1/4 HHCS G5 ZC                | 4   |             |         |
| 106 | BL-8-FW     | 1/2 USS FW ZC                            | 8   |             |         |
| 107 | BL-8-LW     | 1/2 SPLIT LW ZC                          | 4   |             |         |
| 108 | BL-8-LN     | 1/2-13 LN NYLON INSERT ZC                | 4   |             |         |



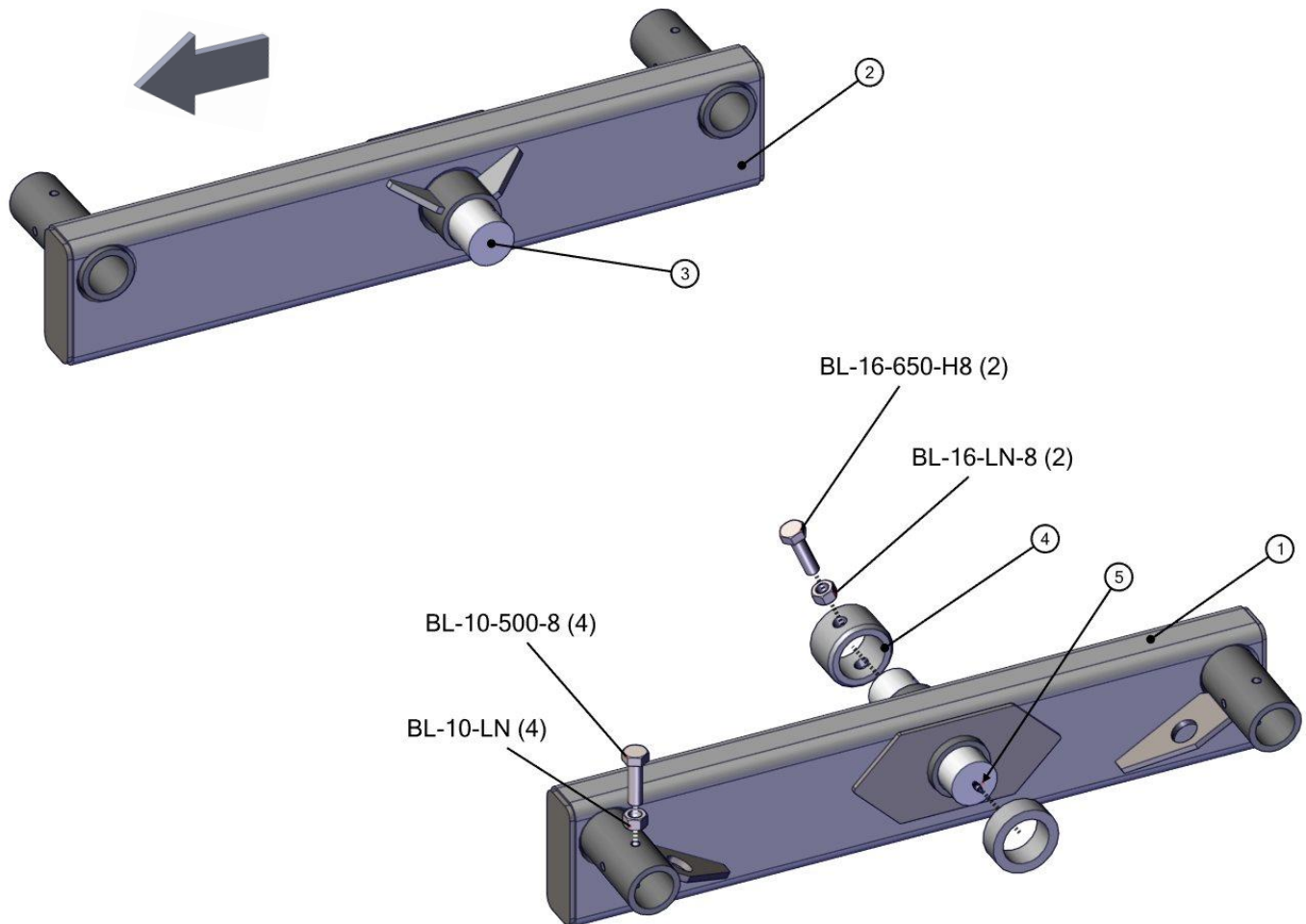
| REF | PART        | DESCRIPTION   | QTY | WILL FIT SN | REMARKS |
|-----|-------------|---|-----|-------------|---------|
| 1   | PR70076     | Endgate Frame   | 1   |             |         |
| 2   | PR70077     | Endgate Belting, Side                                   | 2   |             |         |
| 3   | PR70078     | Endgate Bar   | 2   |             |         |
| 4   | PR70119     | Endgate Belting, Bott                                   | 1   |             |         |
| 5   | PR70118     | End Gate Hinge Pin                                      | 2   |             |         |
| 6   | PR70113     | Endgate Belting   | 1   |             |         |
| 7   | PR70115     | Belting Bar   | 1   |             |         |
| 8   | GF-1428     | Grease Fitting 1/4 x 28 straight                        | 2   |             |         |
| 9   | PR39063     | Backing Bar, End Gate Belting                           | 1   |             |         |
| 10  | PIN-10-40   | Clevis Pin, Zinc-Plated, 5/8 Dia., 2-1/4 Long, 2 Usable | 2   |             |         |
| 11  | PIN-0014    | Spring Roll Pin, 5/32 x 1-1/2 Long                      | 2   |             |         |
| 100 | BL-6-075-H  | 3/8-16 X 3/4 HHCS G5 ZC                                 | 2   |             |         |
| 101 | BL-6-150-C  | 3/8-16 X 1-1/2 CARRIAGE BOLT G5 ZC                      | 23  |             |         |
| 102 | BL-6-FW     | 3/8 USS FW ZC   | 25  |             |         |
| 103 | BL-6-LW     | 3/8 SPLIT LW ZC   | 25  |             |         |
| 104 | BL-6-N      | 3/8-16 HEX NUT ZC                                       | 23  |             |         |
| 105 | BL-10-425-H | 5/8-11 X 4-1/4 HH CAP G5 ZC                             | 2   |             |         |
| 106 | BL-10-FW    | 5/8 USS FW ZC   | 12  |             |         |
| 107 | BL-10-LN    | 5/8-11 HEX LN NE ZC                                     | 2   |             |         |





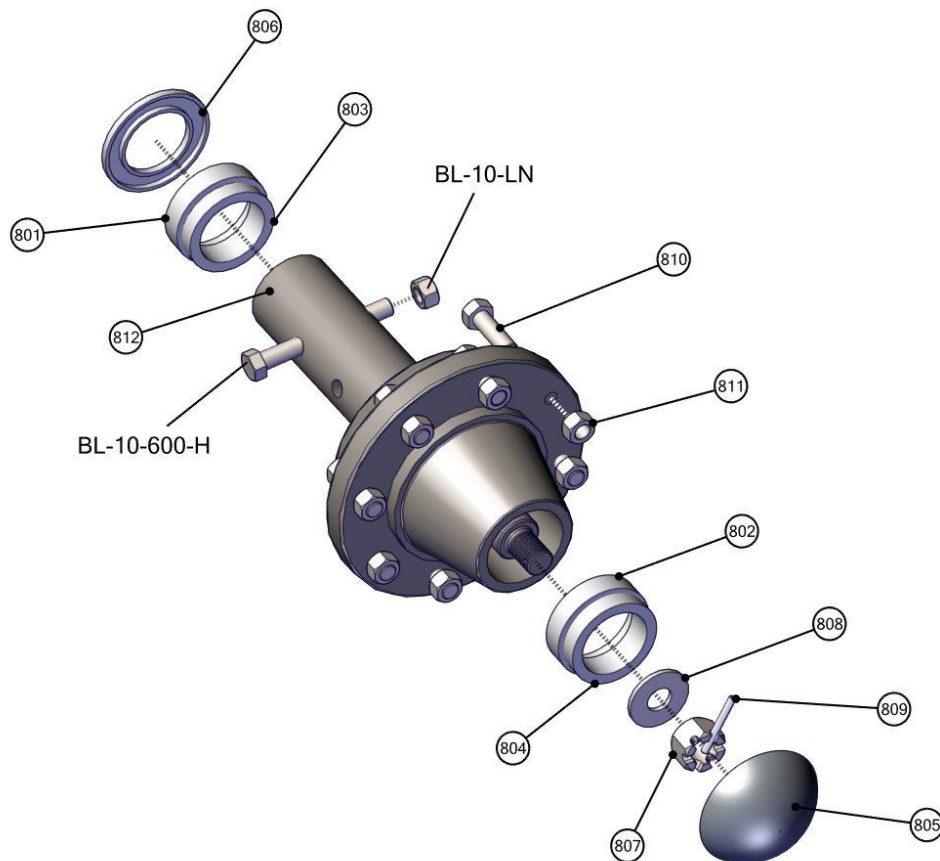
## 7015-1-07 WALKING BEAM

| REF | PART         | DESCRIPTION                                  | QTY | WILL FIT SN | REMARKS |
|-----|--------------|--|-----|-------------|---------|
| 1   | PR70079      | Rocker, LH                                   | 1   |             |         |
| 2   | PR70080      | Rocker, RH                                   | 1   |             |         |
| 3   | PR70368      | Pin, Rocker                                  | 2   |             |         |
| 3   | PR70028      | Pin, Rocker                                  | 0   |             |         |
| 4   | PR34413      | Bronze Bushing for Spreader, 3-1/2 Dia Shaft | 4   |             |         |
| 5   | GF-1827      | Grease Fitting 1/8 NPT Straight              | 2   |             |         |
| 100 | BL-10-LN     | 5/8-11 HEX LN NE ZC                          | 4   |             |         |
| 101 | BL-10-500-8  | 5/8-11 X 5 HHCS ZC G8                        | 4   |             |         |
| 102 | BL-16-LN-8   | 1 H LN ZC G8                                 | 2   |             |         |
| 103 | BL-16-650-H8 | 1-8 X 6-1/2 HH C/S G8 ZC                     | 2   |             |         |



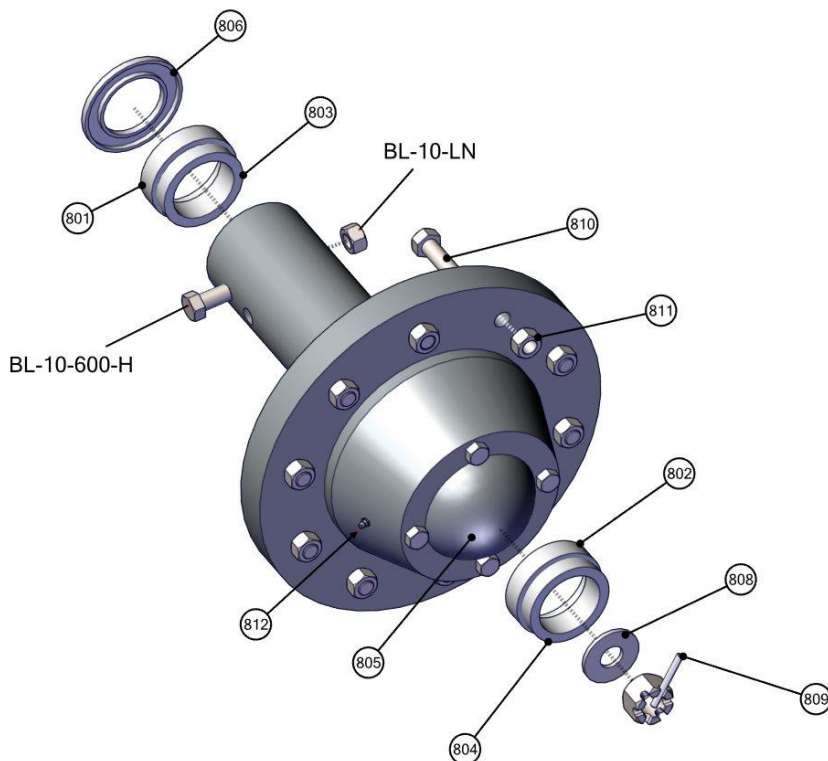
## 7015-1-08 HUBS AND SPINDLES, ALL TIRE OPTIONS

| REF | PART         | DESCRIPTION                                     | QTY | WILL FIT SN | REMARKS                   |
|-----|--------------|---|-----|-------------|---------------------------|
| 1   | WHL-3000     | Hub Assembly Complete w/ Spindle, Painted Black | 4   |             | Harvesters use WHL-3000-2 |
| 100 | BL-10-600-H  | 5/8-11 X 6 HEX CAP G5 ZC                        | 4   |             |                           |
| 101 | BL-10-LN     | 5/8-11 HEX LN NE ZC                             | 4   |             |                           |
| 800 | WBR-3000K    | Wheel Bearing Kit Hub & Spindle Assy.           | 4   | WHL-3000    |                           |
| 801 | WHL-3000A    | Inner Cup                                       | 4   | WHL-3000    |                           |
| 802 | WHL-3000B    | Outer Cup                                       | 4   | WHL-3000    |                           |
| 803 | WHL-3000C    | Inner Cone                                      | 4   | WHL-3000    |                           |
| 804 | WHL-3000D    | Outer Cone                                      | 4   | WHL-3000    |                           |
| 805 | WHL-3000H    | Hub Cap   | 4   | WHL-3000    | 3 1/8 od                  |
| 806 | WHL-3000G    | Seal  | 4   | WHL-3000    |                           |
| 807 | WHL-3000J    | Spindle Nut                                     | 4   | WHL-3000    |                           |
| 808 | WHL-3000K    | Spindle Washer                                  | 4   | WHL-3000    |                           |
| 809 | PIN-C3-16-32 | Cotter Pin 3/16 x 2                             | 4   |             |                           |
| 810 | WHL-3000E    | Stud Bolt                                       | 32  | WHL-3000    |                           |
| 811 | WHL-3000F    | Lug Nut   | 32  | WHL-3000    |                           |
| 812 | WHL-3001     | Spindle 3 x 16                                  | 4   | WHL-3000    |                           |



## 7015-1-08A OPT. HUBS AND SPINDLES, SINGLE WHEEL

| REF | PART        | DESCRIPTION                           | QTY | WILL FIT SN   | REMARKS   |
|-----|-------------|---------------------------------------|-----|---------------|---|
| 1   | WHL-1210    | Hub and Spindle Assembly 10 Bolt      | 2   |               | 4' Spindle 18K Rated                                |
| 100 | BL-10-600-H | 5/8-11 X 6 HEX CAP G5 ZC              | 2   |               |   |
| 101 | BL-10-LN    | 5/8-11 HEX LN NE ZC                   | 2   |               |   |
| 800 | WBR-1210K   | Wheel Bearing Kit Hub & Spindle Assy. | 1   | WHL-1210      | inner & outer cones & cups and grease seal & gasket |
| 801 | WHL-1210A   | Inner Cup                             | 1   |               |   |
| 802 | WHL-1210B   | Outer Cup                             | 1   |               |   |
| 803 | WHL-1210C   | Inner Cone                            | 1   |               |   |
| 804 | WHL-1210D   | Outer Cone                            | 1   |               |   |
| 805 | WHL-1210E   | Dust Cap                              | 1   |               |   |
| 806 | WHL-1210F   | Grease Seal                           | 1   |               |   |
| 807 | WHL-1210G   | Flange Nut, Spindle                   | 1   |               |   |
| 808 | WHL-1210H   | Washer, Spindle                       | 1   |               |   |
| 809 | WHL-1210I   | Cotter Pin, Spindle                   | 1   |               |   |
| 810 | WHL-1210J   | Wheel Stud Bolt                       | 10  |               |   |
| 811 | WHL-1210K   | Wheel Stud Nut                        | 10  | USE WHL-1210W | USE WHL-1210W                                       |
| 812 | GF-1827     | Grease Fitting 1/8 NPT Straight       | 1   |               |   |
| 815 | WHL-1210M   | Spindle                               | 1   |               |   |



## 7015-1-09 TIRES AND WHEELS, 16.5-16.1 IMPLEMENT TIRES

| REF | PART     | DESCRIPTION   | QTY | WILL FIT SN | REMARKS |
|-----|----------|---|-----|-------------|---------|
| 1   | WHM-1514 | 16.5-16.1 Tire & Wheel Asm, Tubeless                          | 4   | 790         |         |
| 801 | WHL-1614 | 16 x 14 Wheel 8-8-6 (3/8 Positive Offset)                     | 4   |             |         |
| 802 | WHT-1614 | 16.5 x 16.1 14 Ply Ribbed Implement Tire (Spreader, Tubeless) | 4   |             |         |



## 7015-1-09A OPT. TIRES AND WHEELS, 11R-22.5 TRUCK TIRES

| REF | PART     | DESCRIPTION                                     | QTY | WILL FIT SN | REMARKS |
|-----|----------|---|-----|-------------|---------|
| 1   | WHM-7107 | 11.00-22.5 Tire & Wheel Assy.                   | 4   |             |         |
| 801 | WHL-7107 | 22.5 x 8.25 Wheel - 8-8-6 - 3/8 Positive Offset | 4   |             |         |
| 802 | WHT-7107 | 11-22.5 Recapped Implement Tire                 | 4   |             |         |



## 7015-1-09B OPT. TIRES AND WHEELS, 500/50-22.5

| REF | PART     | DESCRIPTION  | QTY | WILL FIT SN | REMARKS |
|-----|----------|--|-----|-------------|---------|
| 1   | WHM-7111 | 500/50-22.5 Tire & Wheel Assy                                  | 4   |             |         |
| 801 | WHL-7111 | Wheel, 22.5 x 16 6MM 12MM 8 Hole 6 Pilot, .75 Camfer, 0 Offset | 4   |             |         |
| 802 | WHT-7111 | Tire, 500/50-22.5, 16 Ply FLOT648 TL                           | 4   |             |         |



## 7015-1-09C OPT. TIRES AND WHEELS, 385/65R22.5 TRUCK TIRES

| REF | PART     | DESCRIPTION                                  | QTY | WILL FIT SN | REMARKS |
|-----|----------|--|-----|-------------|---------|
| 1   | WHM-7106 | 385/65R22.5 Tire & Wheel Assy (Spreaders)    | 4   | 790         |         |
| 801 | WHL-7106 | 22.5 X 11.75 Wheel 8-8-6 3/8 positive offset | 4   |             |         |
| 802 | WHT-7106 | Used Truck Tire 385/65R22.5                  | 4   |             |         |





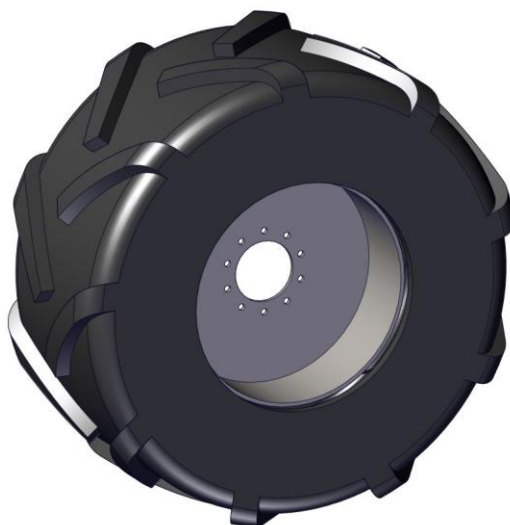
## 7015-1-09D OPT. TIRES AND WHEELS, 425/65R22.5 TRUCK TIRES

| REF | PART     | DESCRIPTION                                  | QTY | WILL FIT SN | REMARKS |
|-----|----------|--|-----|-------------|---------|
| 1   | WHM-7109 | 425/65R22.5 Tire & Wheel Assy, 8 Lug         | 4   |             |         |
| 801 | WHT-7105 | Used Truck Tire 425/65R22.5                  | 1   |             |         |
| 802 | WHL-7106 | 22.5 X 11.75 Wheel 8-8-6 3/8 positive offset | 1   |             |         |



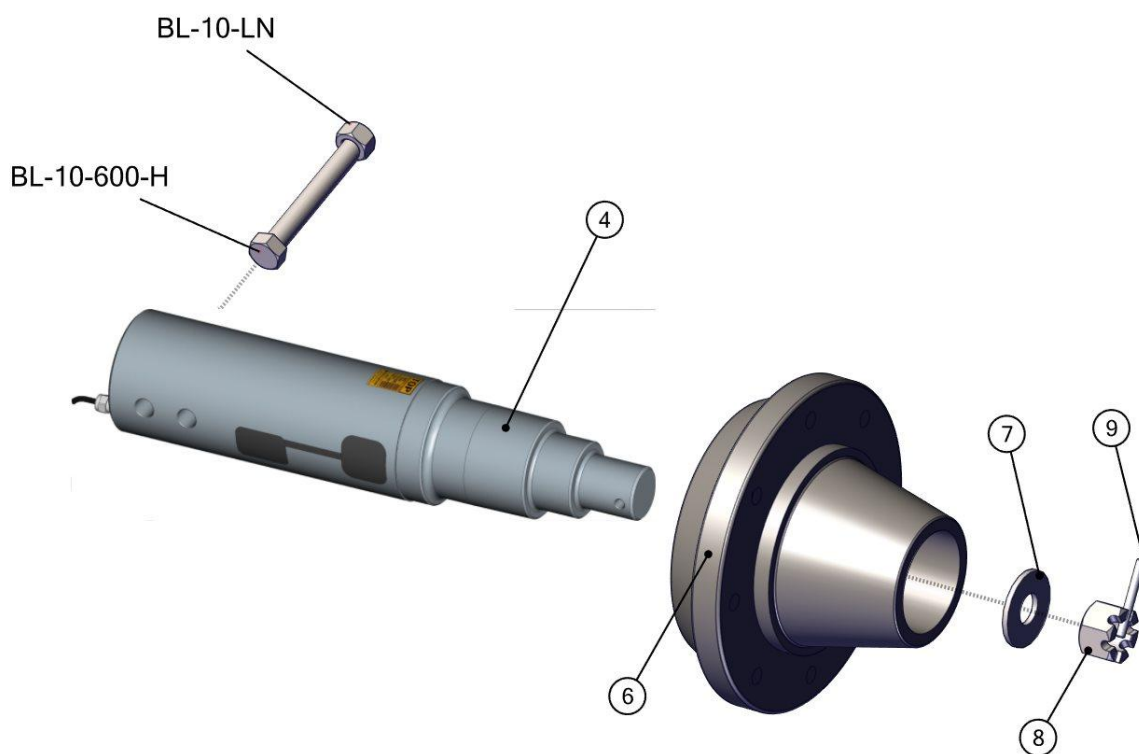
## 7015-1-09E OPT. TIRES AND WHEELS, 380/90R46-14.9

| REF | PART     | DESCRIPTION                        | QTY | WILL FIT SN | REMARKS |
|-----|----------|------------------------------------|-----|-------------|---------|
| 1   | WHM-7115 | Wheel & Tire Assy, 380/90R46-14.9  | 2   |             |         |
| 813 | WHL-7112 | Wheel, 14.9 x 46, 10 Bolt          | 2   |             |         |
| 814 | WHT-7113 | Tire, 380/90R46, 14.9-46 Model 363 | 2   |             |         |



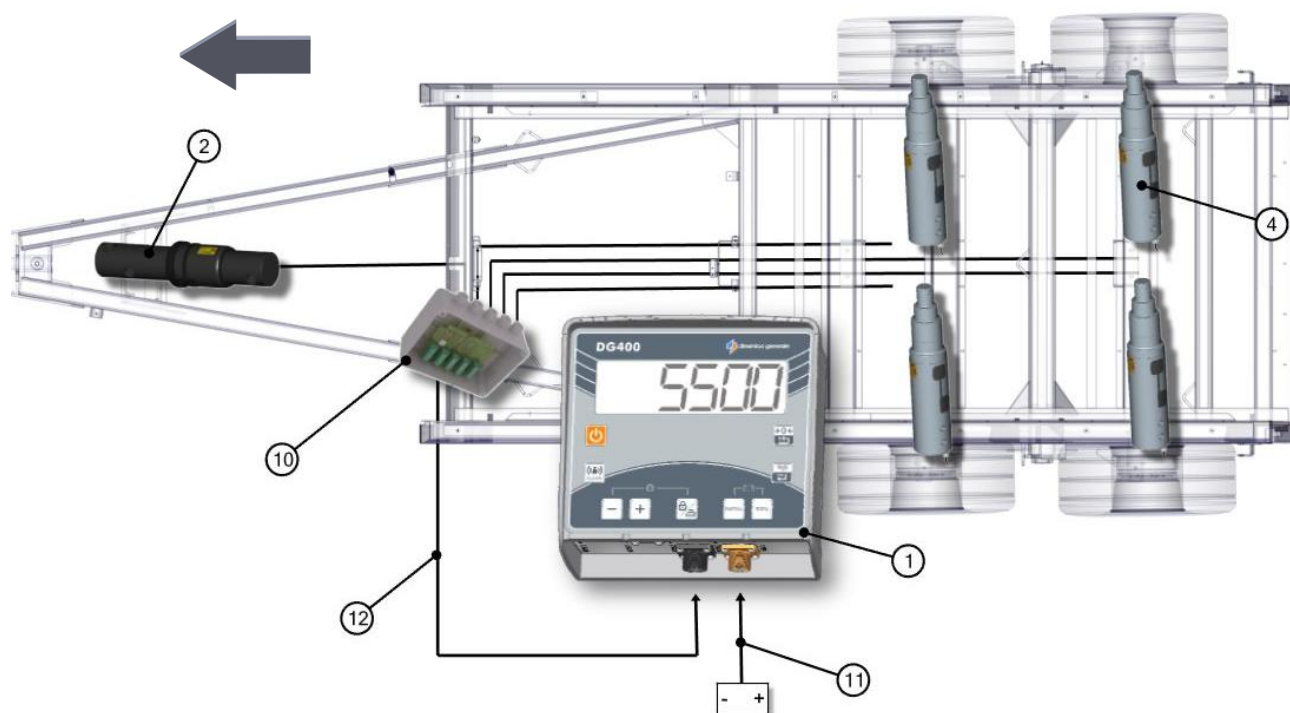
## 7015-1-10 OPT. WEIGHT SCALE SYSTEM, NT460

| REF | PART         | DESCRIPTION  | QTY | WILL FIT SN | REMARKS |
|-----|--------------|--|-----|-------------|---------|
| 1   | SWS-4604-003 | Indicator, W/AutoLog, NT460                                    | 1   |             |         |
| 2   | SWS-4605-002 | Cell, dia 2.875 DB-21 HT                                       | 1   |             |         |
| 4   | SWS-4609-001 | Load Cell 3.0 SA -16   | 4   |             |         |
| 6   | WHL-3000-HC  | Complete Hub For WHL-3000, Without the Spindle                 | 4   |             |         |
| 7   | WHL-3000K    | Spindle Washer   | 4   | WHL-3000    |         |
| 8   | WHL-3000J    | Spindle Nut  | 4   | WHL-3000    |         |
| 9   | PIN-C3-16-32 | Cotter Pin 3/16 x 2  | 4   |             |         |
| 10  | SWS-4605-003 | J-Box 6 Pt   | 1   |             |         |
| 11  | SWS-4605-005 | Power Cable 4- wire, 3m Cable                                  | 1   |             |         |
| 12  | SWS-4605-004 | J Box Cable, 9m  | 1   |             |         |
| 13  | SWS-4604-006 | Rail Mount, Monitor Mount                                      | 1   |             |         |
| 14  | SWS-403780   | Indicator Mount, NT460, Bracket - SCR-#10 x 5/8 FHSTS Black ZP | 1   |             |         |
| 15  | SWS-404353   | Indicator Mount, NT460, Bracket - EZ3 Plastic Rail             | 1   |             |         |
| 100 | BL-10-600-H  | 5/8-11 X 6 HEX CAP G5 ZC                                       | 1   |             |         |
| 101 | BL-10-LN     | 5/8-11 HEX LN NE ZC  | 1   |             |         |
| 800 | SWS-4610     | Spreader Weight System, 5 Point with NT460                     | 1   |             |         |
| 801 | WHL-1210-LCS | Wheel Hub Seal, Load Cell Spindle Seal                         | 1   |             |         |



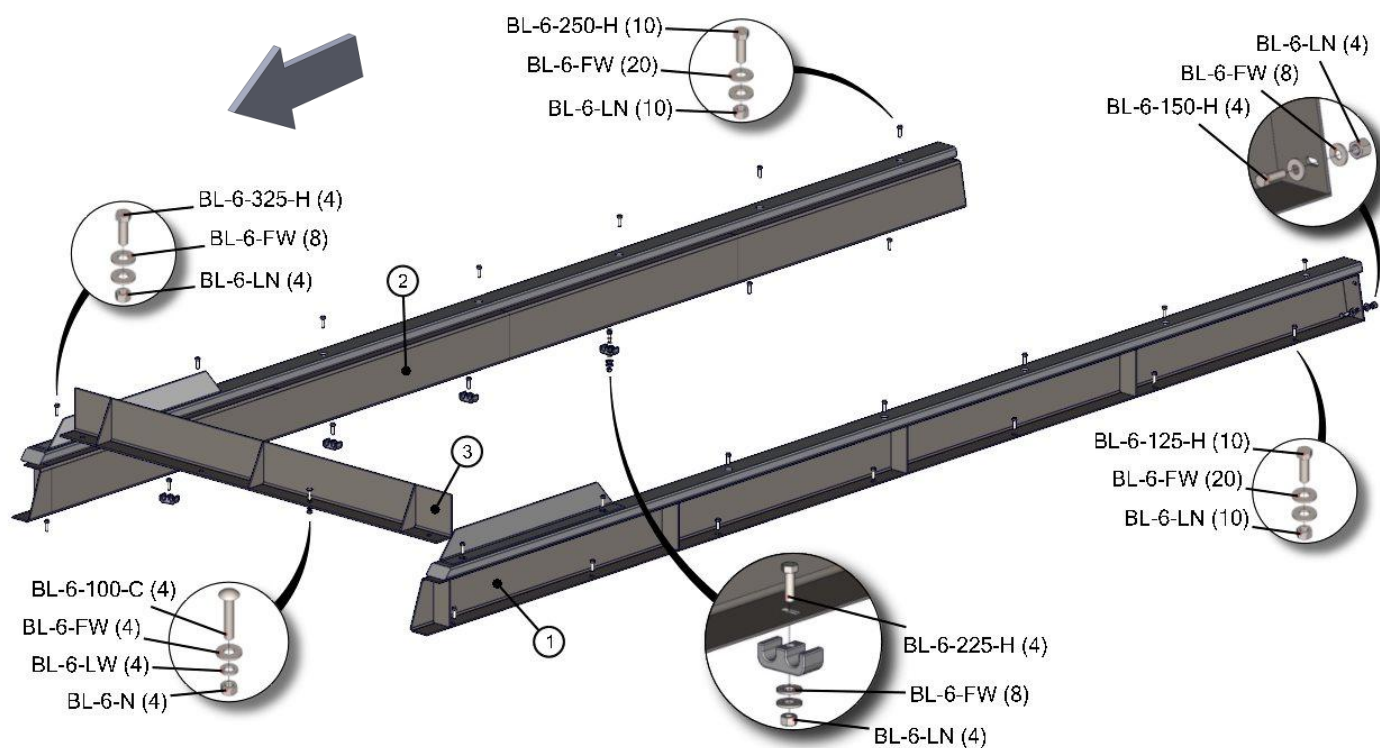
## 7019-1-10A OPT. WEIGHT SCALE SYSTEM, DG400

| REF | PART         | DESCRIPTION  | QTY | WILL FIT SN | REMARKS |
|-----|--------------|--|-----|-------------|---------|
| 1   | SWS-1001     | DG400 Slim Box w/ Isobus, Weigh Scale Display Module   | 1   |             |         |
| 2   | SWS-1007     | Load Cell, 2-7/8 Dia                                   | 1   |             |         |
| 4   | SWS-1008     | Spindle Load Cell, 3 Dia.                              | 4   |             |         |
| 6   | WHL-3000-HC  | Complete Hub For WHL-3000, Without the Spindle         | 4   |             |         |
| 7   | WHL-3000K    | Spindle Washer   | 4   | WHL-3000    |         |
| 8   | WHL-3000J    | Spindle Nut  | 4   | WHL-3000    |         |
| 9   | PIN-C3-16-32 | Cotter Pin 3/16 x 2                                    | 4   |             |         |
| 10  | SWS-1004     | J-Box, 6-9 Load Cells Plug Style                       | 1   |             |         |
| 11  | SWS-1005     | Power Cable, 16 ft w/ Ring Terminals                   | 1   |             |         |
| 12  | SWS-1006     | Sensor Cable, 22 ft w/ Connectors, J-Box to Scale Head | 1   |             |         |
| 100 | BL-10-600-H  | 5/8-11 X 6 HEX CAP G5 ZC                               | 1   |             |         |
| 101 | BL-10-LN     | 5/8-11 HEX LN NE ZC                                    | 1   |             |         |



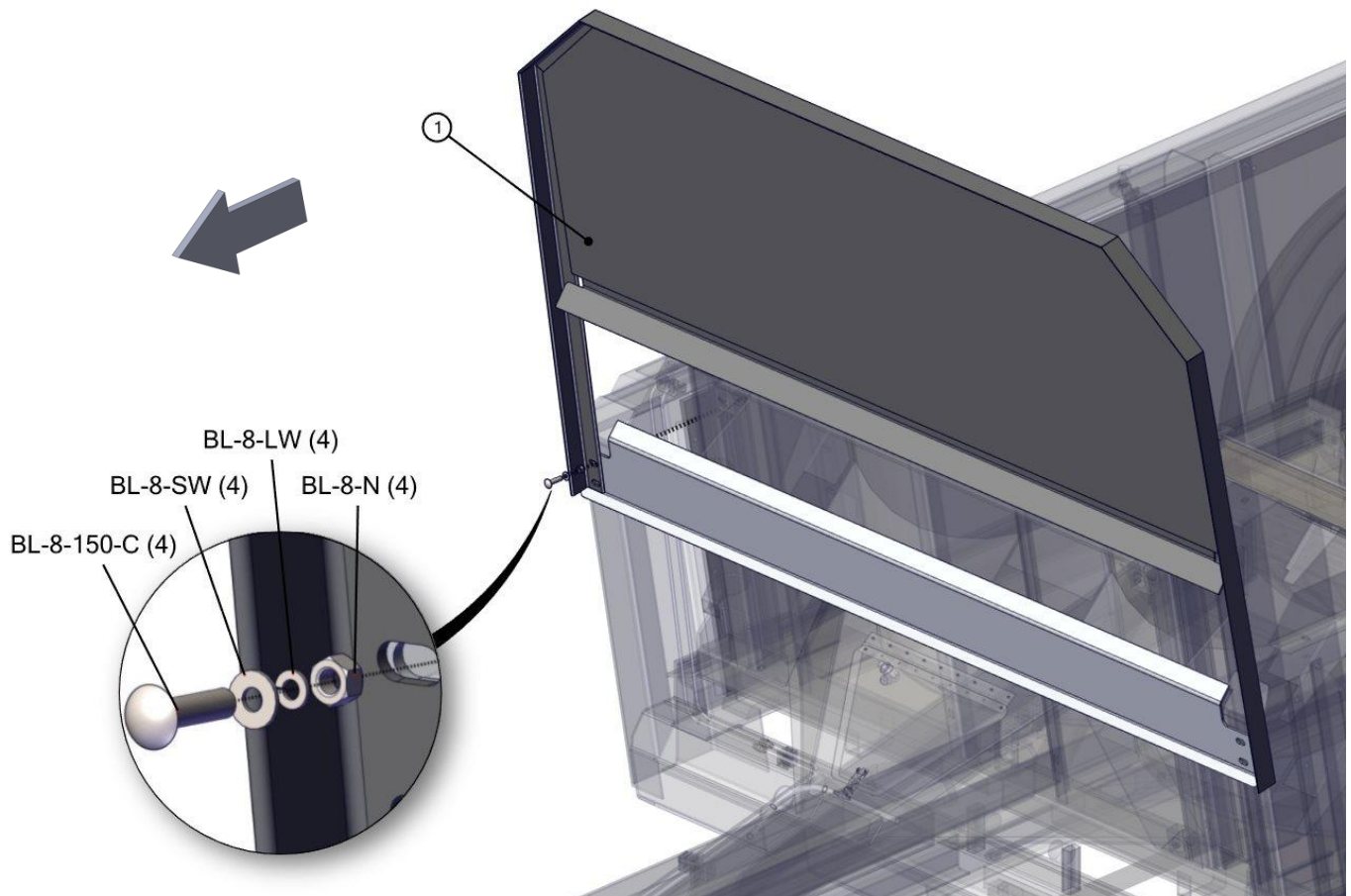
## 7020-1-11 OPT. SIDE EXTENSIONS

| REF | PART       | DESCRIPTION                          | QTY | WILL FIT SN | REMARKS |
|-----|------------|--------------------------------------|-----|-------------|---------|
| 1   | PR70493    | Side Extension, HR400, HR550, LH     | 1   |             |         |
| 2   | PR70494    | Side Extension, HR400, HR550, RH     | 1   |             |         |
| 3   | PR70136    | Pusher Extension                     | 1   |             |         |
| 100 | BL-6-100-C | 3/8-16 X 1 CARRIAGE BOLT G5 ZC       | 4   |             |         |
| 101 | BL-6-125-H | 3/8-16 X 1-1/4 HHCS G5 ZC            | 10  |             |         |
| 102 | BL-6-150-H | 3/8-16 X 1-1/2 HEX CAP G5 ZC         | 4   |             |         |
| 103 | BL-6-225-H | 3/8 UNC X 2 1/4 HH C/S BOLT GR5 ZINC | 4   |             |         |
| 104 | BL-6-250-H | 3/8-16 X 2-1/2 HH C/S G5 ZC          | 10  |             |         |
| 105 | BL-6-325-H | 3/8 UNC X 3 1/2 HH C/S BOLT GR5 ZINC | 4   |             |         |
| 106 | BL-6-FW    | 3/8 USS FW ZC                        | 68  |             |         |
| 107 | BL-6-LW    | 3/8 SPLIT LW ZC                      | 4   |             |         |
| 108 | BL-6-LN    | 3/8-16 FIN H LN NE A563 GA ZC        | 32  |             |         |
| 109 | BL-6-N     | 3/8-16 HEX NUT ZC                    | 4   |             |         |



## 7015-1-12 OPT. ROCK GUARD

| REF | PART       | DESCRIPTION                        | QTY | WILL FIT SN | REMARKS |
|-----|------------|------------------------------------|-----|-------------|---------|
| 1   | PR70129    | Rock Guard                         | 1   |             |         |
| 100 | BL-8-150-C | 1/2-13 X 1-1/2 CARRIAGE BOLT G5 ZC | 4   |             |         |
| 101 | BL-8-SW    | 1/2 SAE FW ZC                      | 4   |             |         |
| 102 | BL-8-LW    | 1/2 SPLIT LW ZC                    | 4   |             |         |
| 103 | BL-8-N     | 1/2-13 HEX FIN NUTS ZC             | 4   |             |         |

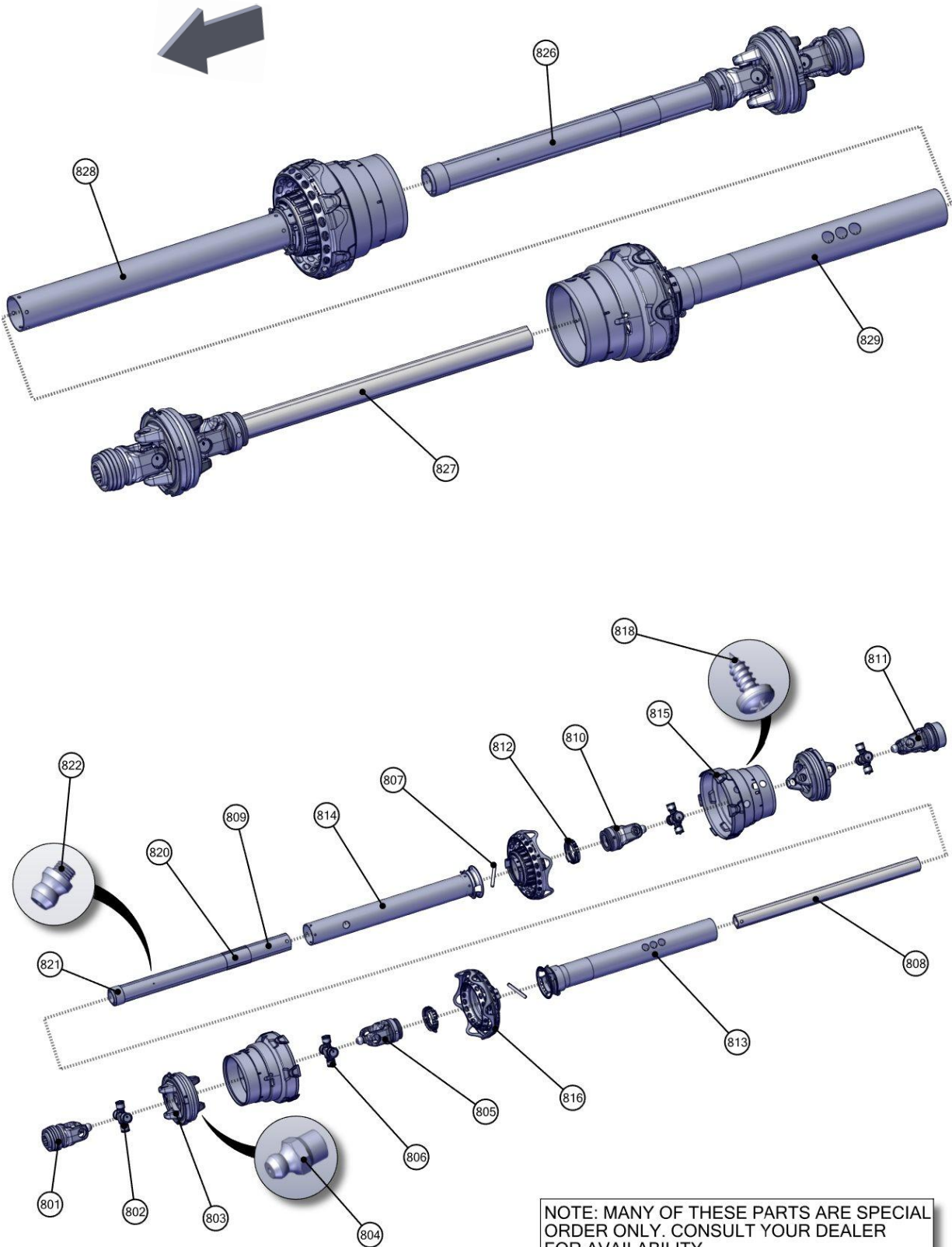




## 7015-2-01 DRIVELINE, FRONT 1-3/8" CV

| REF | PART       | DESCRIPTION  | QTY | WILL FIT SN             | REMARKS            |
|-----|------------|--|-----|-------------------------|--------------------|
| 1   | PTS-1015   | Driveline, Spreader, 1-3/8-21, 2500 Series                     | 1   |                         | Replaces PTS-1008  |
| 801 | PTS-1015A  | Yoke ASG   | 1   |                         |                    |
| 802 | PTS-1015B  | Cross & Bearing Kit  | 2   |                         |                    |
| 803 | PTS-3001-Y | Double Yoke End  | 2   |                         |                    |
| 804 | PTS-1008C  | Zerk, Double Yoke  | 2   |                         | Special Order Only |
| 805 | PTS-1015C  | Inboard Yoke S4  | 1   |                         |                    |
| 806 | PTS-1015D  | Cross & Bearing Kit  | 2   |                         |                    |
| 807 | PTB-1014C  | Spring Pin 10 X 75   | 2   |                         | Special Order Only |
| 808 | PTS-1015E  | Inner Profile S4LGA  | 1   |                         |                    |
| 809 | PTS-1015F  | Outer Profile S5GL   | 1   |                         |                    |
| 810 | PTS-1015G  | Inboard Yoke S5  | 1   |                         |                    |
| 811 | PTS-1015H  | Yoke ASG   | 1   |                         |                    |
| 812 | PTS-1002J  | PTO Shield Bearing Ring  | 2   |                         | Special Order Only |
| 813 | PTS-1015J  | Guard Tube Outer   | 1   |                         |                    |
| 814 | PTS-1015K  | Guard Tube Inner   | 1   |                         |                    |
| 815 | PTS-1015L  | CV Guard & Bearing Assy  | 2   |                         |                    |
| 816 | PTS-1015M  | Flex Net & Guard Assy  | 2   |                         |                    |
| 817 | PTS-1002K  | PTO Shield Safety Chain  | 1   |                         | Special Order Only |
| 818 | PTS-1010K  | Screw  | 14  |                         | Special Order Only |
| 819 | PTS-1010L  | Decal, Outer   | 1   |                         | Special Order Only |
| 820 | PTS-1010M  | Decal, Inner   | 1   |                         | Special Order Only |
| 821 | PTS-1021H  | Support Bearing  | 1   |                         | Special Order Only |
| 822 | PTB-1014L  | Zerk   | 1   |                         | Special Order Only |
| 823 | PTS-1008Q  | CV Lubrication Decal   | 1   | Replaced with PTS-1021P | Special Order Only |
| 824 | PTS-8100E  | AS Collar Kit  | 0   |                         | Special Order Only |
| 825 | PTS-1008R  | ASG Collar Kit   | 0   |                         | Special Order Only |
| 826 | PTS-1015FH | Driveline, 1-3/8-21, Front Half Only                           | 1   |                         |                    |
| 827 | PTS-1015RH | Driveline, 1-3/8-21, Rear Half Only (Star)Rear couple 1-3/4-20 | 1   |                         |                    |
| 828 | PTS-1015FS | Shield Complete,Front Half                                     | 1   |                         |                    |
| 829 | PTS-1015RS | Shield Complete, Rear Half                                     | 1   |                         |                    |

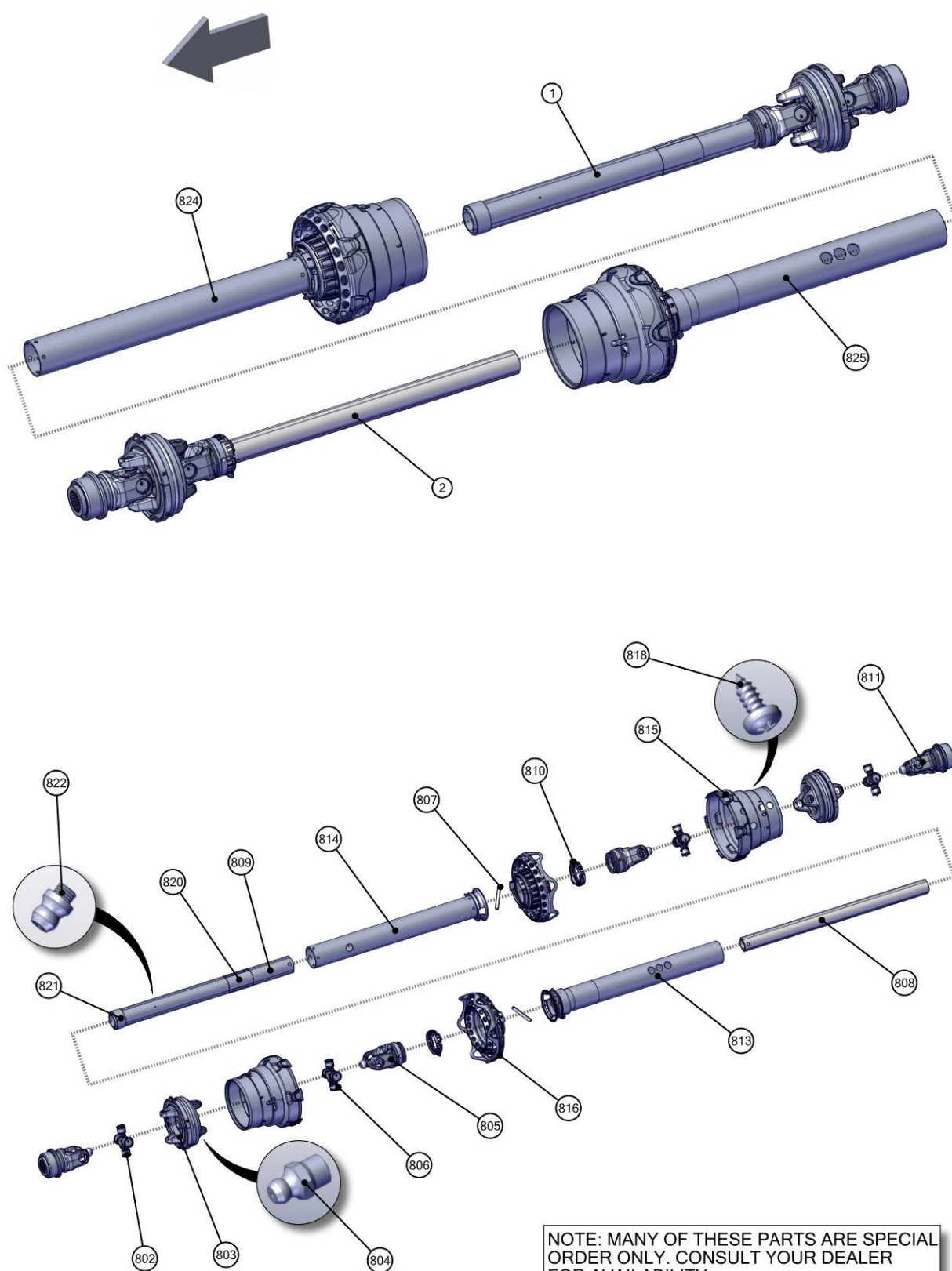
## 7015-2-01 DRIVELINE, FRONT 1-3/8" CV



## 7015-2-01A OPT. DRIVELINE, FRONT 1-3/4" CV

| REF | PART       | DESCRIPTION  | QTY | WILL FIT SN             | REMARKS            |
|-----|------------|--|-----|-------------------------|--------------------|
| 1   | PTS-1016FH | Driveline, 1-3/4 -20, Front Half Only                          | 1   |                         |                    |
| 2   | PTS-1015RH | Driveline, 1-3/8-21, Rear Half Only (Star)Rear couple 1-3/4-20 | 1   |                         |                    |
| 802 | PTS-1015B  | Cross & Bearing Kit  | 2   |                         |                    |
| 803 | PTS-3001-Y | Double Yoke End  | 2   |                         |                    |
| 804 | PTS-1008C  | Zerk, Double Yoke  | 2   |                         | Special Order Only |
| 805 | PTS-1015C  | Inboard Yoke S4  | 1   |                         |                    |
| 806 | PTS-1015D  | Cross & Bearing Kit  | 2   |                         |                    |
| 807 | PTB-1014C  | Spring Pin 10 X 75   | 2   |                         | Special Order Only |
| 808 | PTS-1016A  | Inner Profile  | 1   |                         |                    |
| 809 | PTS-1016B  | Outer Profile  | 1   |                         |                    |
| 810 | PTS-1015G  | Inboard Yoke S5  | 1   |                         |                    |
| 811 | PTS-1015H  | Yoke ASG   | 2   |                         |                    |
| 812 | PTS-1002J  | PTO Shield Bearing Ring  | 2   |                         | Special Order Only |
| 813 | PTS-1016C  | Guard Tube, Outer  | 1   |                         |                    |
| 814 | PTS-1016D  | Guard Tube, Inner  | 1   |                         |                    |
| 815 | PTS-1015L  | CV Guard & Bearing Assy  | 2   |                         |                    |
| 816 | PTS-1015M  | Flex Net & Guard Assy  | 2   |                         |                    |
| 817 | PTS-1002K  | PTO Shield Safety Chain  | 2   |                         | Special Order Only |
| 818 | PTS-1010K  | Screw  | 18  |                         | Special Order Only |
| 819 | PTS-1010L  | Decal, Outer   | 1   |                         | Special Order Only |
| 820 | PTS-1010M  | Decal, Inner   | 1   |                         | Special Order Only |
| 821 | PTS-1021H  | Support Bearing  | 1   |                         | Special Order Only |
| 822 | PTB-1014L  | Zerk   | 1   |                         | Special Order Only |
| 823 | PTS-1008Q  | CV Lubrication Decal   | 1   | Replaced with PTS-1021P | Special Order Only |
| 824 | PTS-1016FS | Shield Complete, Front Half                                    | 1   |                         |                    |
| 825 | PTS-1015RS | Shield Complete, Rear Half                                     | 1   |                         |                    |

## 7015-2-01A OPT. DRIVELINE, FRONT 1-3/4" CV

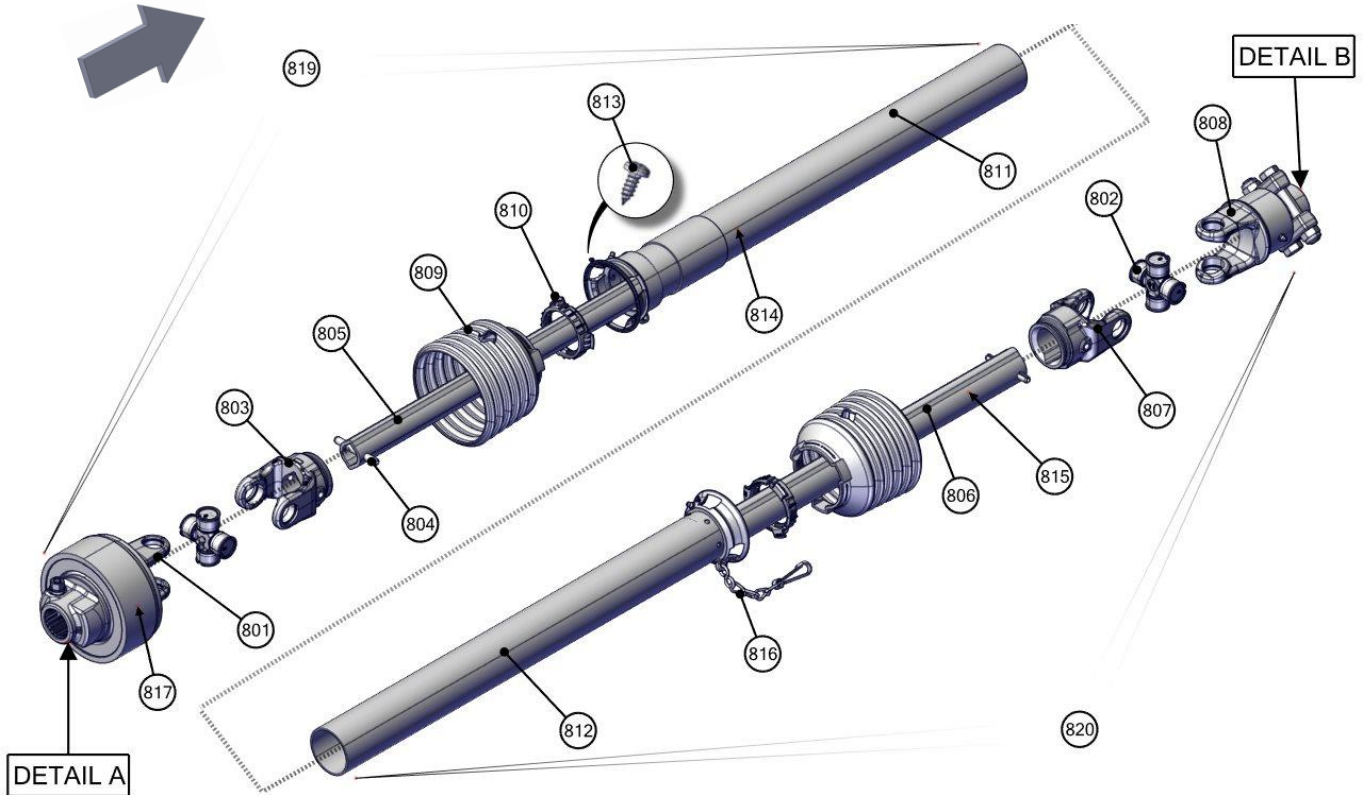


## 7015-2-02 DRIVELINE, REAR WITH CLUTCH

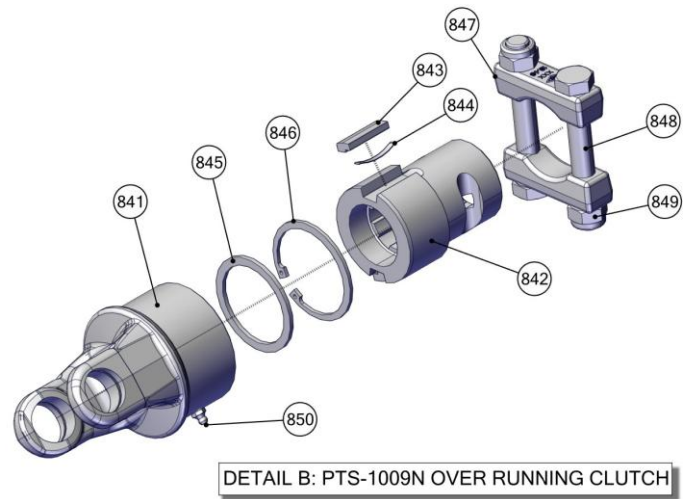
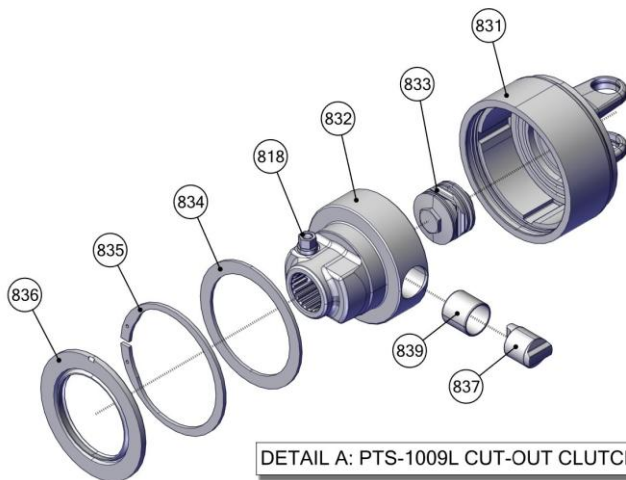
| REF | PART        | DESCRIPTION                   | QTY | WILL FIT SN | REMARKS            |
|-----|-------------|-------------------------------|-----|-------------|--------------------|
| 1   | PTS-1009    | Driveline for Verticals, Rear | 1   |             |                    |
| 801 | PTS-1009L   | Cut-Out Clutch                | 1   |             | Special Order Only |
| 802 | PTS-1010B   | Cross & Bearing Kit           | 2   |             | Special Order Only |
| 803 | PTS-1009B   | Inboard Yoke, 1b              | 1   |             | Special Order Only |
| 804 | PTS-1010C   | Spring Pin                    | 2   |             | Special Order Only |
| 805 | PTB-1014E   | Inner Profile                 | 1   |             | Special Order Only |
| 806 | PTS-1009M   | Outer Profile                 | 1   |             | Special Order Only |
| 807 | PTS-1010D   | Inboard Yoke                  | 1   |             | Special Order Only |
| 808 | PTS-1009N   | Overrunning Clutch            | 1   |             | Special Order Only |
| 809 | PTB-1014I   | Shield Cone 6 Rib             | 2   |             | Special Order Only |
| 810 | PTS-1002J   | PTO Shield Bearing Ring       | 2   |             | Special Order Only |
| 811 | PTS-1009P   | Guard Tube Outer              | 1   |             | Special Order Only |
| 812 | PTS-1009Q   | Guard Tube Inner              | 1   |             | Special Order Only |
| 813 | PTS-1010K   | Screw                         | 2   |             | Special Order Only |
| 814 | PTS-1010L   | Decal, Outer                  | 1   |             | Special Order Only |
| 815 | PTS-1010M   | Decal, Inner                  | 1   |             | Special Order Only |
| 816 | PTS-1002K   | PTO Shield Safety Chain       | 1   |             | Special Order Only |
| 817 | PTS-1009J   | Decal                         | 1   |             | Special Order Only |
| 818 | PTS-1009K   | CC Lock Assembly              | 1   |             | Special Order Only |
| 819 | PTS-1009-FH | Front, Half Shaft             | 1   |             | Special Order Only |
| 820 | PTS-1009-RH | Rear, Half Shaft              | 1   |             | Special Order Only |
| 831 | PTS-1009E-B | Housing                       | 1   |             | Special Order Only |
| 832 | PTS-1009E-C | Hub 1-3/4-20 Spl CC           | 1   |             | Special Order Only |
| 833 | PTS-1009E-D | Spring Pack                   | 1   |             | Special Order Only |
| 834 | PTS-1009E-E | Washer                        | 1   |             | Special Order Only |
| 835 | PTS-1009E-F | Retaining Ring                | 1   |             | Special Order Only |
| 836 | PTS-1009E-G | Sealing Ring                  | 1   |             | Special Order Only |
| 837 | PTS-1009E-A | Cam                           | 2   |             | Special Order Only |
| 839 | PTS-1009E-H | Bushing - In Part PTS-1009E-C | 2   |             | Special Order Only |
| 841 | PTS-1020A-A | Clutch Housing                | 1   |             | Special Order Only |
| 842 | PTS-1009N-A | Hub                           | 1   |             | Special Order Only |
| 843 | PTS-1010F-A | Key                           | 2   |             | Special Order Only |
| 844 | PTS-1010F-B | Leaf Spring                   | 2   |             | Special Order Only |
| 845 | PTS-1009N-B | Supporting Ring               | 1   |             | Special Order Only |
| 846 | PTS-1010F-G | Retaining Ring                | 1   |             | Special Order Only |
| 847 | PTS-1009N-C | Clamp Bridge                  | 2   |             | Special Order Only |
| 848 | PTS-1009N-D | Hex Bolt - M16 x 110L         | 2   |             | Special Order Only |
| 849 | PTS-1009N-E | Locknut - M16                 | 2   |             | Special Order Only |
| 850 | PTS-1008C   | Zerk, Double Yoke             | 1   |             | Special Order Only |



## 7015-2-02 DRIVELINE, REAR WITH CLUTCH



NOTE: MANY OF THESE PARTS ARE SPECIAL ORDER ONLY. CONSULT YOUR DEALER FOR AVAILABILITY.

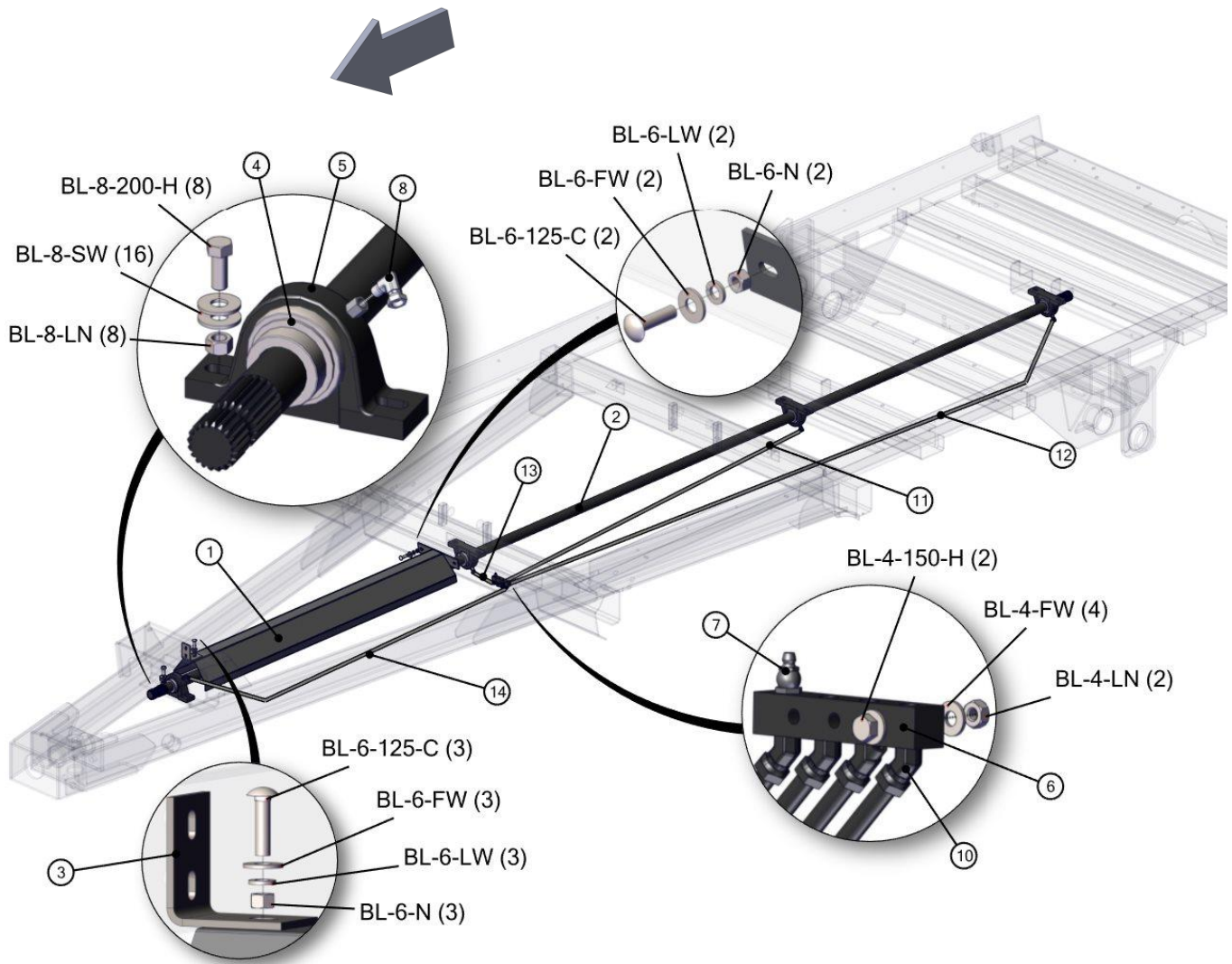




## 7015-2-03 DRIVELINE, MID SHAFT AND SHIELDS

| REF | PART           | DESCRIPTION                                    | QTY | WILL FIT SN | REMARKS |
|-----|----------------|--|-----|-------------|---------|
| 1   | PR70089        | Drive Shaft Shield                             | 1   |             |         |
| 2   | PR33228        | Shaft, Main, Vertical Beater Spreader          | 1   |             |         |
| 3   | PR70132        | Mount, Driveline Shield                        | 1   |             |         |
| 4   | BR-175-085-I   | Bearing, 1 ¾ ID, TS                            | 4   |             |         |
| 5   | BR-085-RAK     | Bearing Housing 85 mm                          | 4   |             |         |
| 6   | GF-4-4         | 4 Grease Manifold                              | 1   |             |         |
| 7   | GF-1827-45     | Grease Fitting 1/8 NPT 45°                     | 4   |             |         |
| 8   | A-1501-2-2     | 1/8 MP x 1/8' FPX90°                           | 4   |             |         |
| 10  | A-1503-2-2     | 1/8 MP x 1/8' FPX 45°                          | 4   |             |         |
| 11  | H2-114-2MP-2MP | 1/8 in grease hose 1/8MP x 1/8MP x 114 in long | 1   |             |         |
| 12  | H2-165-2MP-2MP | 1/8 Grease Hose, 1/8MP x 1/8MP x 165           | 1   |             |         |
| 13  | H2-20-2MP-2MP  | 1/8in Grease Hose x 1/8MP x 1/8MP x 20in Long  | 1   |             |         |
| 14  | H2-72-2MP-2MP  | 1/8 in grease hose 1/8MP x 1/8MP x 72 in long  | 1   |             |         |
| 100 | BL-4-150-H     | 1/4-20 X 1-1/2 HEX CAP G5 ZC                   | 2   |             |         |
| 101 | BL-4-FW        | 1/4 USS FW ZC                                  | 4   |             |         |
| 102 | BL-4-LN        | 1/4-20 HEX LN NE ZC                            | 2   |             |         |
| 103 | BL-6-125-C     | 3/8-16 X 1-1/4 CARRIAGE BOLT G5 ZC             | 5   |             |         |
| 104 | BL-6-FW        | 3/8 USS FW ZC                                  | 5   |             |         |
| 105 | BL-6-LW        | 3/8 SPLIT LW ZC                                | 5   |             |         |
| 106 | BL-6-N         | 3/8-16 HEX NUT ZC                              | 5   |             |         |
| 107 | BL-8-200-H     | 1/2-13 X 2 HEX CAP G5 ZC                       | 8   |             |         |
| 108 | BL-8-FW        | 1/2 USS FW ZC                                  | 16  |             |         |
| 109 | BL-8-LN        | 1/2-13 LN NYLON INSERT ZC                      | 8   |             |         |

## 7015-2-03 DRIVELINE, MID SHAFT AND SHIELDS

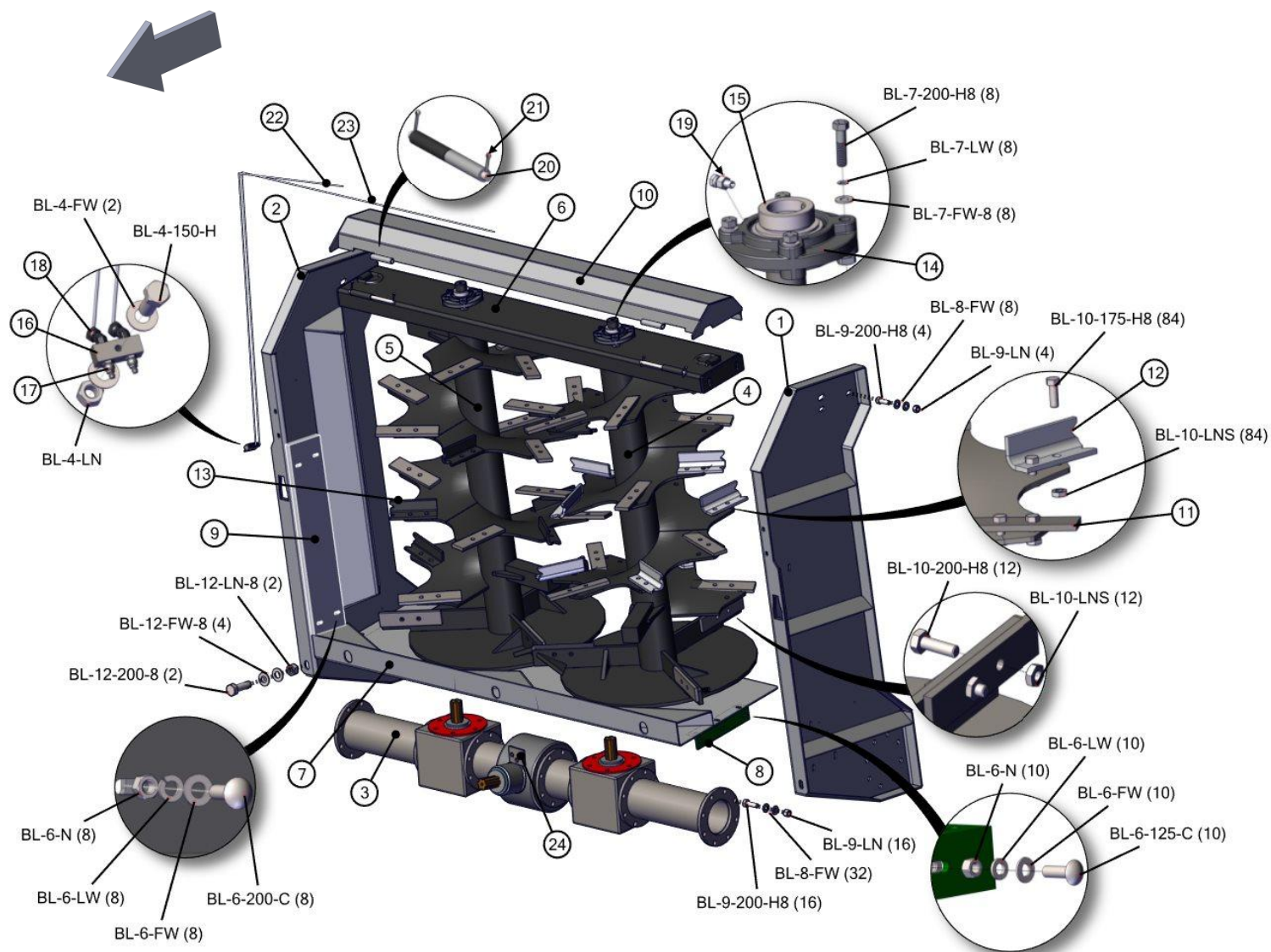


## 7015-2-04 VERTICAL BEATERS WITH GEARBOX

| REF | PART          | DESCRIPTION                                   | QTY | WILL FIT SN                           | REMARKS |
|-----|---------------|---|-----|---------------------------------------|---------|
| 1   | PR70081       | Beater Panel, LH                              | 1   |                                       |         |
| 2   | PR70082       | Beater Panel, RH                              | 1   |                                       |         |
| 3   | VTB-1899-P2   | Gearbox, 1000 rpm                             | 1   |                                       |         |
| 4   | VTB-0009      | Vertical Beater, LH                           | 1   |                                       |         |
| 5   | VTB-0010      | Vertical Beater, RH                           | 1   |                                       |         |
| 6   | PR70083       | Beater Bearing Plate                          | 1   |                                       |         |
| 7   | PR70084       | Beater Pan                                    | 1   |                                       |         |
| 8   | PR70085       | Beater Pan Mount                              | 2   |                                       |         |
| 9   | PR70090       | Beater Panel Plastic                          | 2   |                                       |         |
| 10  | PR70096       | Cover, Bearing Plate                          | 1   |                                       |         |
| 11  | VTB-1899-F3   | Knife, Weight Specific                        | 34  | 1190VB:71113001-<br>1180VB: 74015011- |         |
| 12  | VTB-1899-B3   | Claw/Blade, Left Beater From Rear             | 7   |                                       |         |
| 13  | VTB-1899-C3   | Claw/Blade, Right Beater From Rear            | 7   |                                       |         |
| 14  | BR-085-4PF    | 85mm Four Bolt Piloted Flange Housing         | 2   |                                       |         |
| 15  | BR-175-085-I  | Bearing, 1 ¾ ID, TS                           | 2   |                                       |         |
| 16  | GF-2-2        | 2 Grease Manifold                             | 1   |                                       |         |
| 17  | GF-1827       | Grease Fitting 1/8 NPT Straight               | 2   |                                       |         |
| 18  | A-1503-2-2    | 1/8 MP x 1/8 FPX 45°                          | 2   |                                       |         |
| 19  | A-1404-2-2    | 1/8 MP x 1/8 FPX                              | 2   |                                       |         |
| 20  | PR70133       | Hinge Pin, 1/2 x 9                            | 2   |                                       |         |
| 21  | PIN-C3-24     | Cotter Pin 3/16 x 1 1/2                       | 4   |                                       |         |
| 22  | H2-36-2MP-2MP | 1/8 in grease hose 1/8MP x 1/8MP x 36 in long | 1   |                                       |         |
| 23  | H2-68-2MP-2MP | 1/8 Hose, 1/8MP x 1/8MP x 68                  | 1   |                                       |         |
| 24  | PR50502       | Shim, Bottom Panel under Gearbox              | 1   |                                       |         |
| 25  | HP-1038       | Gear Lube, 80W90 @ Quart                      | 11  | Hydra Ram Spreader                    |         |
| 100 | BL-4-150-H    | 1/4-20 X 1-1/2 HEX CAP G5 ZC                  | 1   |                                       |         |
| 101 | BL-4-FW       | 1/4 USS FW ZC                                 | 2   |                                       |         |
| 102 | BL-4-LN       | 1/4-20 HEX LN NE ZC                           | 1   |                                       |         |
| 103 | BL-6-125-C    | 3/8-16 X 1-1/4 CARRIAGE BOLT G5 ZC            | 10  |                                       |         |
| 104 | BL-6-200-C    | 3/8-16 X 2 CARRIAGE BOLT G5 ZC                | 8   |                                       |         |
| 105 | BL-6-FW       | 3/8 USS FW ZC                                 | 18  |                                       |         |
| 106 | BL-6-LW       | 3/8 SPLIT LW ZC                               | 18  |                                       |         |
| 107 | BL-6-N        | 3/8-16 HEX NUT ZC                             | 18  |                                       |         |
| 108 | BL-7-200-H8   | 7/16-14 X 2 HH G8                             | 8   |                                       |         |
| 109 | BL-7-FW-8     | 7/16 FW G8                                    | 8   |                                       |         |
| 110 | BL-7-LW       | 7/16 SPLIT LW ZC                              | 8   |                                       |         |
| 111 | BL-8-FW       | 1/2 USS FW ZC                                 | 40  |                                       |         |
| 112 | BL-9-200-H8   | 9/16-12 X 2 HH G8                             | 20  |                                       |         |
| 113 | BL-9-LN       | 9/16-12 LN w/ NYLON INSERT                    | 20  |                                       |         |

## 7015-2-04 VERTICAL BEATERS WITH GEARBOX

| REF | PART         | DESCRIPTION                   | QTY | WILL FIT SN | REMARKS |
|-----|--------------|-------------------------------|-----|-------------|---------|
| 114 | BL-10-175-H8 | 5/8-11 X 1-3/4 HH G8 ZC       | 84  |             |         |
| 115 | BL-10-200-H8 | 5/8-11 X 2 HEX CAP G8 ZC      | 12  |             |         |
| 116 | BL-10-LNS    | 5/8-11 STOVER LN              | 96  |             |         |
| 117 | BL-12-200-8  | 3/4-10 X 2 HH C/S G8 ZC       | 2   |             |         |
| 118 | BL-12-FW-8   | 3/4 FW G8                     | 4   |             |         |
| 119 | BL-12-LN-8   | 3/4-10 LN w/ NYLON INSERTS G8 | 2   |             |         |

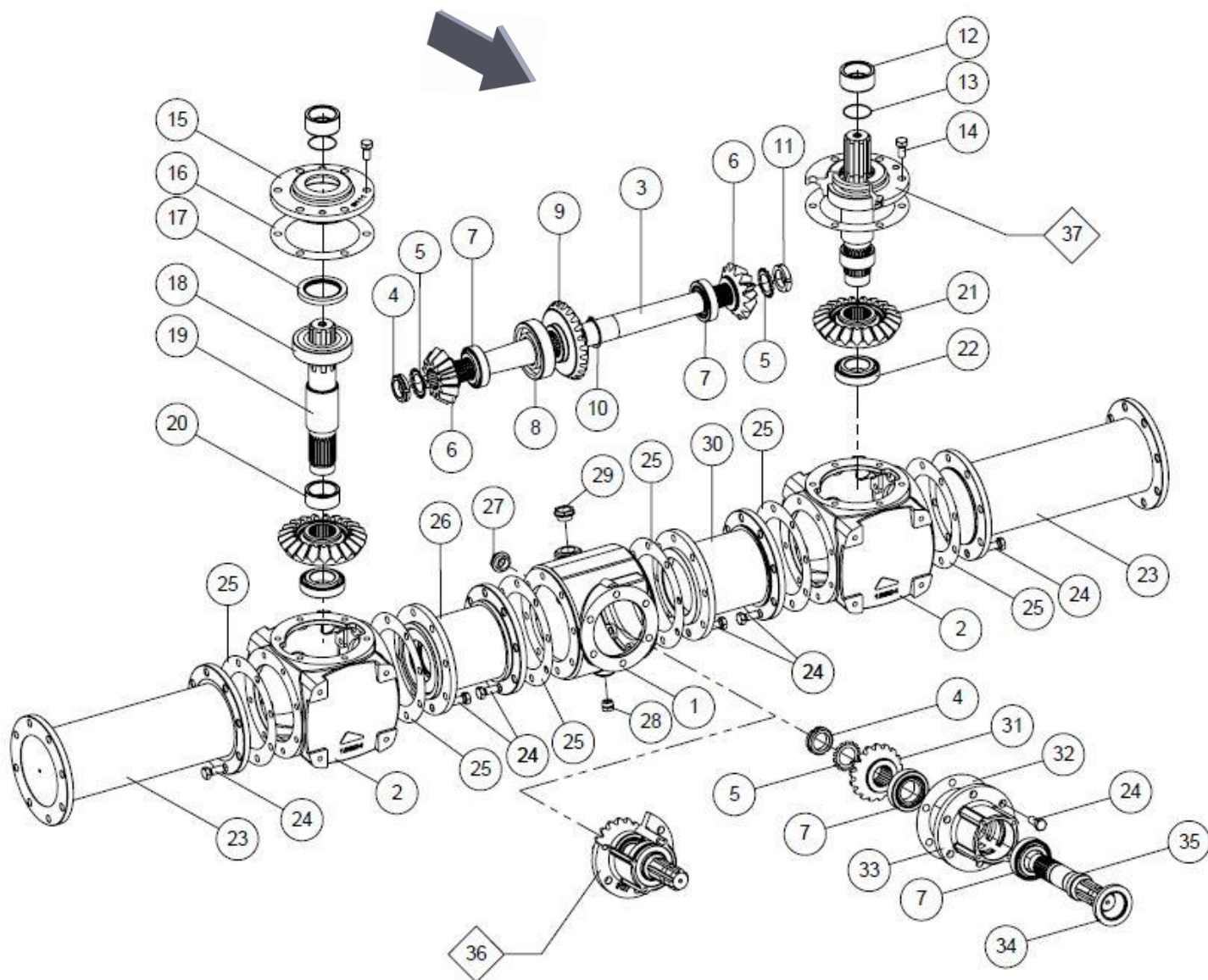


## 7015-2-05 GEARBOX, VERTICAL BEATERS

| REF | PART        | DESCRIPTION               | QTY | WILL FIT SN | REMARKS                       |
|-----|-------------|---------------------------|-----|-------------|-------------------------------|
| 800 | VTB-1899-P2 | Gearbox, 1000 rpm         | 0   |             |                               |
| 801 | VTB-1899-A1 | Housing                   | 1   |             | Special Order Only            |
| 802 | VTB-1899-B1 | Housing                   | 2   |             | Special Order Only            |
| 803 | VTB-1899-C1 | Shaft                     | 1   |             | Special Order Only            |
| 804 | VTB-1899-D1 | Threaded Ring, LH Thread  | 2   |             | Special Order Only            |
| 805 | VTB-1899-E1 | Washer                    | 3   |             | Special Order Only            |
| 806 | VTB-1899-F1 | Bevel Pinion Z=13         | 2   |             | Special Order Only            |
| 807 | VTB-1899-G1 | Bearing 32209             | 4   |             | Special Order Only            |
| 808 | VTB-1899-H1 | Bearing 6311              | 1   |             | Special Order Only            |
| 809 | VTB-1899-J1 | Gear Z=24                 | 1   |             |                               |
| 810 | VTB-1899-K1 | Circlip E 55              | 1   |             | Special Order Only            |
| 811 | VTB-1899-L1 | Threaded Ring, RH Thread  | 1   |             | Special Order Only            |
| 812 | VTB-1899-M1 | Spacer                    | 2   |             | Special Order Only            |
| 813 | VTB-1899-N1 | O-ring 2212               | 2   |             | Special Order Only            |
| 814 | VTB-1899-P1 | Screw, hex-hd M14X30      | 12  |             | Reference Only, Special Order |
| 815 | VTB-1899-Q1 | Calotte                   | 2   |             | Special Order Only            |
| 816 | VTB-1899-R1 | Gasket                    | 2   |             | Special Order Only            |
| 817 | VTB-1899-S1 | Oil Seal                  | 2   |             | Special Order Only            |
| 818 | VTB-1899-T1 | Bearing 6311-2RS          | 2   |             | Special Order Only            |
| 819 | VTB-1899-U1 | Shaft                     | 2   |             | Special Order Only            |
| 820 | VTB-1899-V1 | Spacer                    | 2   |             | Special Order Only            |
| 821 | VTB-1899-W1 | Gear Z=22                 | 2   |             |                               |
| 822 | VTB-1899-X1 | Bearing 32210             | 2   |             | Special Order Only            |
| 823 | VTB-1899-Y1 | Spacer L=428              | 2   |             | Special Order Only            |
| 824 | VTB-1899-Z1 | Screw, hex-hd M14X35      | 54  |             | Reference Only, Special Order |
| 825 | VTB-1899-A2 | Gasket                    | 6   |             | Special Order Only            |
| 826 | VTB-1899-B2 | Right Spacer L=178        | 1   |             | Special Order Only            |
| 827 | VTB-1899-C2 | Oil Lev. Indicator        | 1   |             | Same as GBXA-5-ST10B          |
| 828 | VTB-1899-D2 | Oil Plug, 1/2 Gas         | 1   |             | Special Order Only            |
| 829 | VTB-1899-E2 | Oil Plug, 1 Gas.          | 1   |             | Special Order Only            |
| 830 | VTB-1899-F2 | Left Spacer, L=178        | 1   |             | Special Order Only            |
| 831 | VTB-1899-G2 | Bevel Pinion Z=17         | 1   |             |                               |
| 832 | VTB-1899-H2 | Gasket                    | 1   |             | Special Order Only            |
| 833 | VTB-1899-J2 | Hub                       | 1   |             | Special Order Only            |
| 834 | VTB-1899-K2 | Oil Seal                  | 1   |             |                               |
| 835 | VTB-1899-L2 | Shaft                     | 1   |             | Special Order Only            |
| 836 | VTB-1899-M2 | Hub Complete, Gearbox     | 1   |             | Special Order Only            |
| 837 | VTB-1899-N2 | Calotte Complete, Gearbox | 2   |             | Special Order Only            |



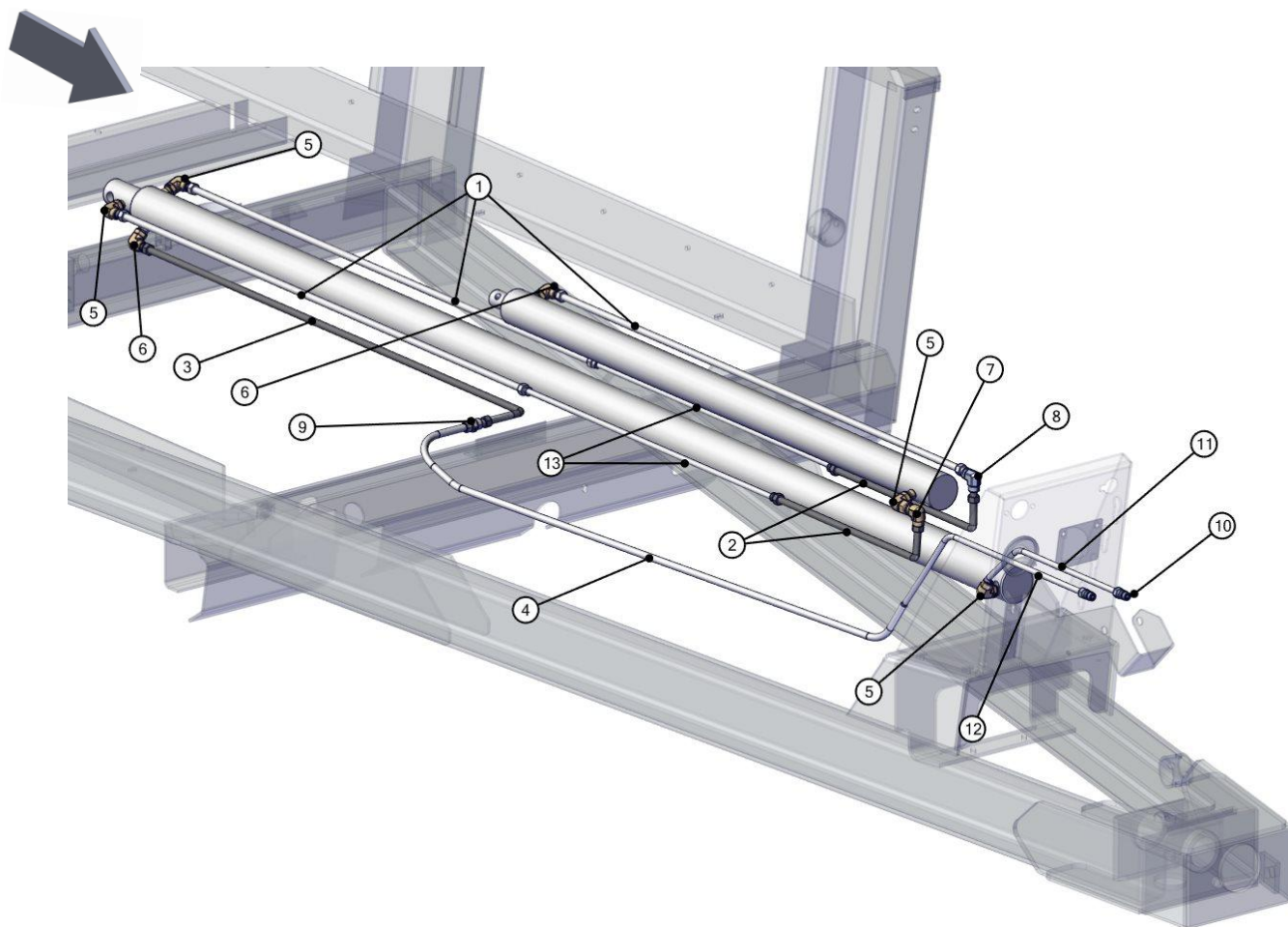
## 7015-2-05 GEARBOX, VERTICAL BEATERS





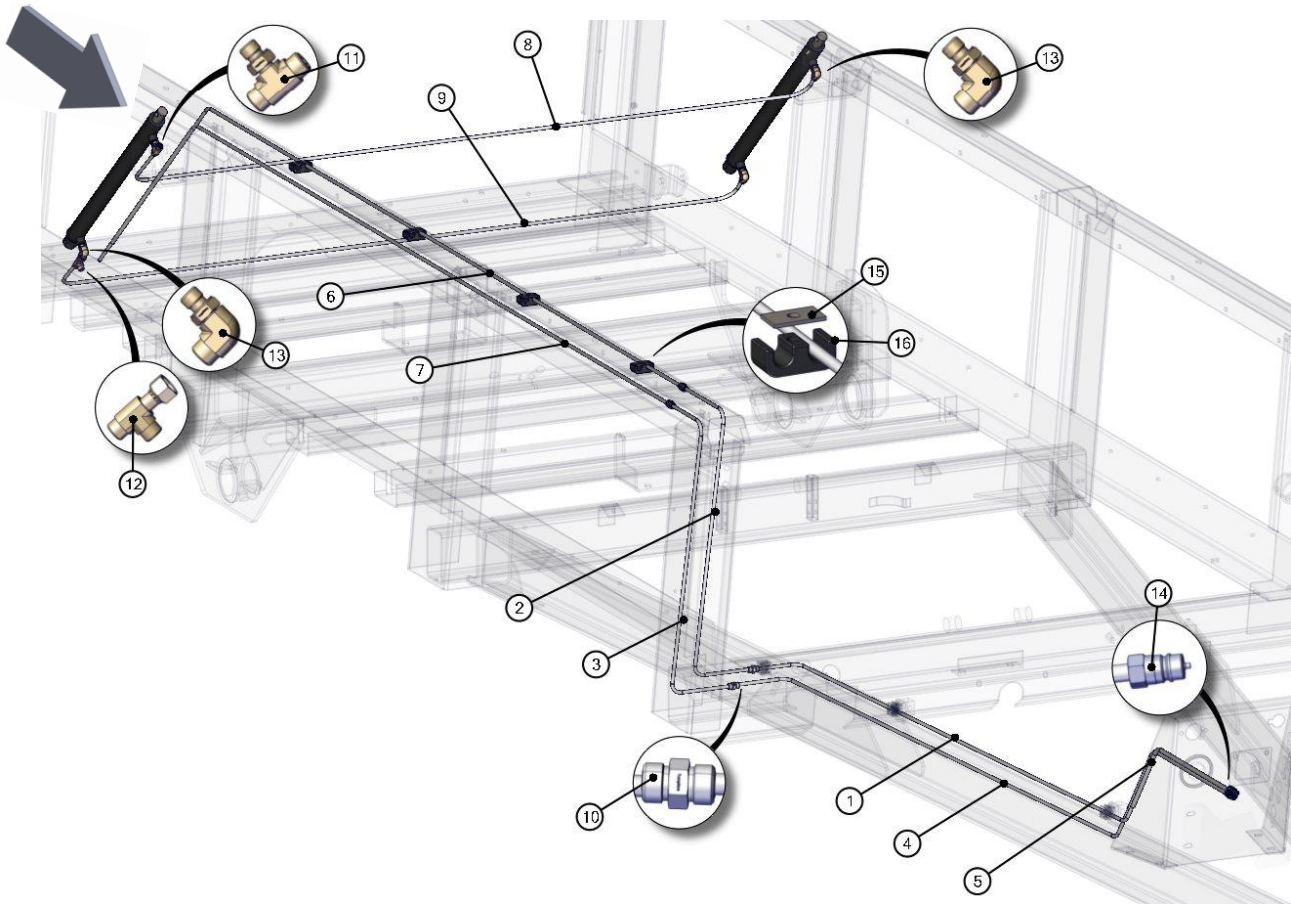
## 7019-3-01 HYDRAULICS, PUSH CYLINDERS

| REF | PART              | DESCRIPTION                              | QTY | WILL FIT SN | REMARKS |
|-----|-------------------|--|-----|-------------|---------|
| 0   | HY-TRAN           | Hytran @ gal                             | 5   |             |         |
| 1   | H-T7001F          | 5/8SS Tube, Floor/Pusher, ORFS           | 3   |             |         |
| 2   | H-T7002F          | 5/8SS Tube, Pusher, ORFS                 | 2   |             |         |
| 3   | H-T7003F          | 5/8SS Tube, Pusher                       | 1   |             |         |
| 4   | H-T7045F          | 5/8SS TUBE, Floor, ORFS                  | 1   |             |         |
| 5   | A-FF6801-C-10-10  | Custom Elbow, 10MFF x 10SAE              | 3   |             |         |
| 6   | A-FF6801-10-10    | Elbow, 5/8 MFF x 5/8 SAE                 | 3   |             |         |
| 7   | A-FF6500-10-10    | Elbow, 10MFF x 10FFFX                    | 1   |             |         |
| 8   | A-FF2500-10-10    | ELBOW UNION, 10MFF X 10MFF               | 1   |             |         |
| 9   | A-FF2403-10-10    | Union, 10MFF x 10MFF                     | 1   |             |         |
| 10  | A-QDS71X15        | Ag Quick Coupler, 1/2 ISO5675 x 8SAE     | 2   |             |         |
| 11  | H8-90-8MOR-10FFFX | 1/2 Hose, 1/2 Male SAE x 5/8 Female ORFS | 1   |             |         |
| 12  | H8-100-8MOR-10MFF | 1/2 Hose, 1/2 Male SAE x 5/8 Male ORFS   | 1   |             |         |
| 13  | H8-40-10MFF-10MFF | 1/2 Hose, 5/8 Male ORFS x 5/8 Male ORFS  | 2   |             |         |



## 7019-3-02 HYDRAULICS, ENDGATE CYLINDERS

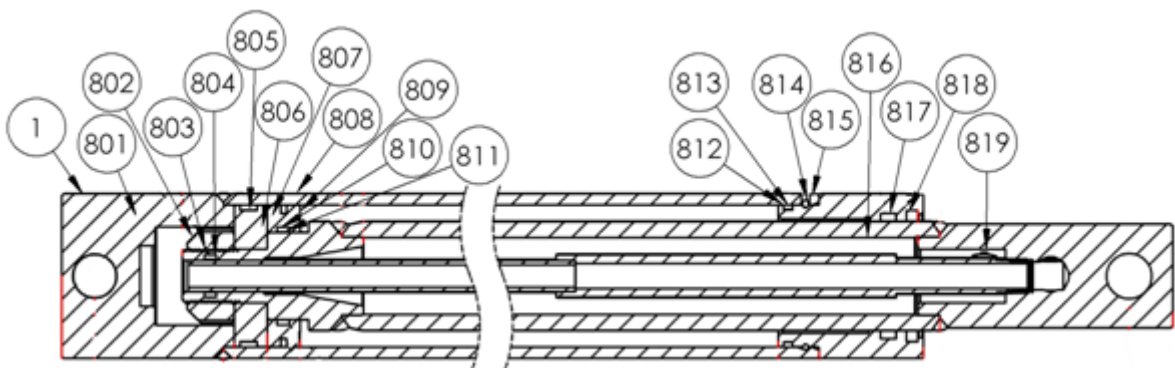
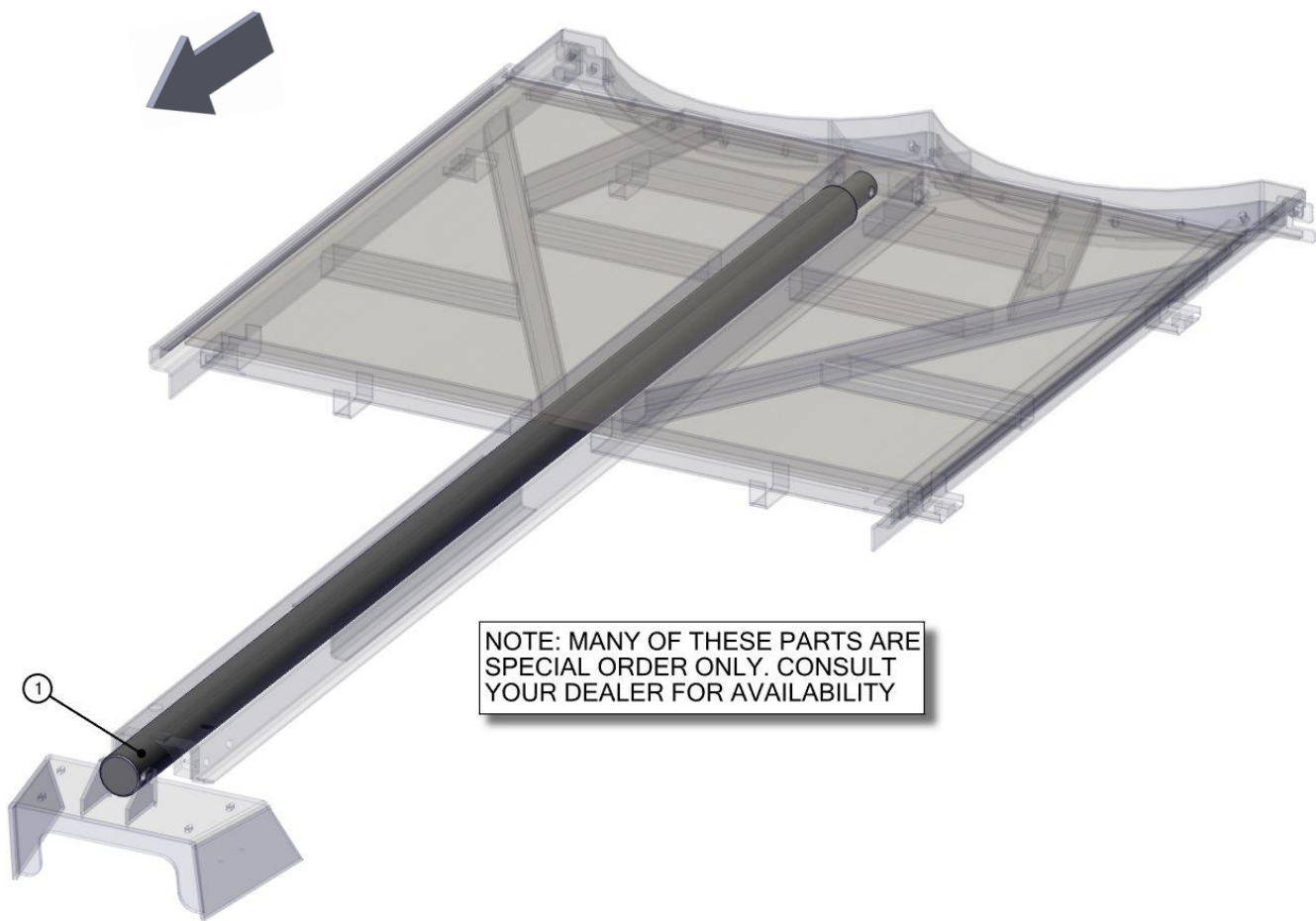
| REF | PART               | DESCRIPTION                                 | QTY | WILL FIT SN | REMARKS |
|-----|--------------------|---|-----|-------------|---------|
| 1   | H-T7042F           | 3/8 SS Tube, Endgate, ORFS                  | 1   |             |         |
| 2   | H-T7043F           | 3/8 SS Tube, Endgate, ORFS                  | 1   |             |         |
| 3   | H-T7044f           | 3/8 SS Tube, Endgate, ORFS                  | 1   |             |         |
| 4   | H-T7048F           | 3/8 SS Tube, Endgate, ORFS                  | 1   |             |         |
| 5   | H6-100-6MFF-8MOR   | 3/8 Hose, 3/8 Male ORFS x 1/2 SAE           | 2   |             |         |
| 6   | H4-150-6MFF-6FFFX  | 1/4 Hose, 3/8 Male ORFS x 3/8 Female ORFS   | 1   |             |         |
| 7   | H4-173-6MFF-6FFFX  | 1/4 Hose, 3/8 Male ORFS x 3/8 Female ORFS   | 1   |             |         |
| 8   | H4-144-6FFFX-6FFFX | 1/4 Hose, 3/8 Female ORFS x 3/8 Female ORFS | 1   |             |         |
| 9   | H4-97-6FFFX-6FFFX  | 1/4 Hose, 3/8 Female ORFS x 3/8 Female ORFS | 1   |             |         |
| 10  | A-FF2403-06-06     | Union, 6MFF X 6MFF                          | 2   |             |         |
| 11  | A-FF6803-06-06-06  | TEE, 6MFF X 6MFF X 6SAE                     | 1   |             |         |
| 12  | A-FF6602-06-06-06  | Run Tee, 6MFF x 6MFF x 6FFFX                | 1   |             |         |
| 13  | A-FF6801-06-06     | ELBOW, 6MFF X 6SAE                          | 3   |             |         |
| 14  | A-QDS71X15         | Ag Quick Coupler, 1/2 ISO5675 x 8SAE        | 2   |             |         |
| 15  | PR34894            | Support, Clamp, 1/4 Double Hose Clamp       | 4   |             |         |
| 16  | PR34896            | Hose Clamp, 1/4 Hydraulic, 1/2 O.D. Hose    | 4   |             |         |



## 7015-3-03 CYLINDER, SLIDING FLOOR

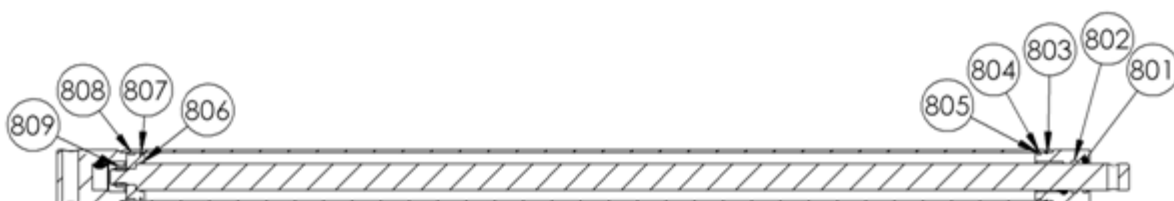
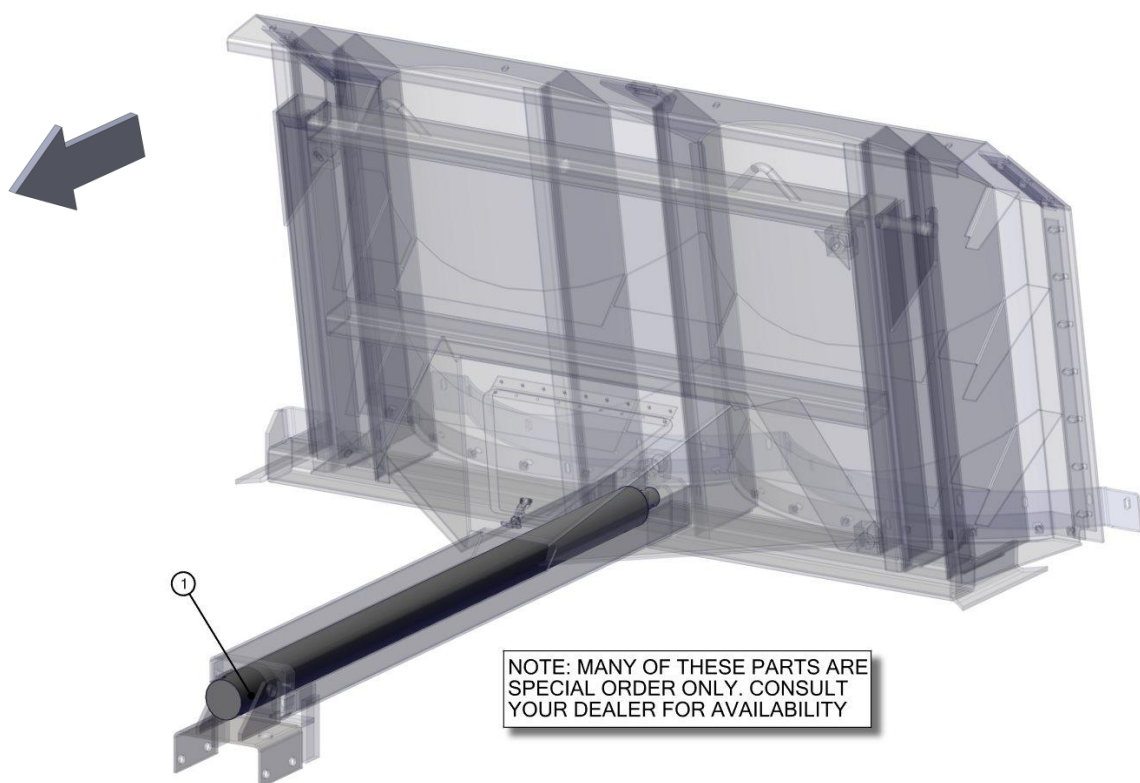
| REF | PART       | DESCRIPTION                                     | QTY | WILL FIT SN       | REMARKS   |
|-----|------------|---|-----|-------------------|---|
| 1   | PR23132    | Main Cylinder - Sliding Floor w/Pin through End | 1   |                   |   |
| 801 | PR23131-L  | Barrel Assy.                                    | 1   |                   | Reference Only, Special Order   |
| 802 | PR23131-M  | Locknut - Thin                                  | 1   |                   | Reference Only, Special Order   |
| 803 | PR23131-N  | Back Up Washer                                  | 2   |                   | Reference Only, Special Order   |
| 804 | PR23131-O  | O Ring  | 1   |                   | Part of Seal Kit, Not Sold Separately                                   |
| 805 | PR23131-P  | Wear Ring                                       | 1   |                   | Part of Seal Kit, Not Sold Separately                                   |
| 806 | PR23131-Q  | Piston  | 1   |                   | Reference Only, Special Order   |
| 807 | PR23131-R  | Piston  | 1   |                   | Reference Only, Special Order   |
| 808 | PR23131-A  | Piston Ring                                     | 1   |                   | Reference Only, Special Order   |
| 809 | PR23131-B  | O-Ring  | 1   |                   | Part of Seal Kit, Not Sold Separately                                   |
| 810 | PR23131-C  | O-Ring  | 1   |                   | Part of Seal Kit, Not Sold Separately                                   |
| 811 | PR23131-D  | Back-up Washer                                  | 2   |                   | Part of Seal Kit, Not Sold Separately                                   |
| 812 | PR23131-E  | O Ring  | 1   |                   | Part of Seal Kit, Not Sold Separately                                   |
| 813 | PR23131-F  | Backup Washer                                   | 1   |                   | Part of Seal Kit, Not Sold Separately                                   |
| 814 | PR23131-LR | Lock Ring                                       | 1   | PR23131 & PR23143 | Reference Only, Special Order   |
| 815 | PR23131-G  | Bearing Assembly                                | 1   |                   | Reference Only, Special Order   |
| 816 | PR23131-H  | Transfer Tube                                   | 1   |                   | Reference Only, Special Order   |
| 817 | PR23131-I  | Bearing Seal                                    | 1   |                   | Part of Seal Kit, Not Sold Separately                                   |
| 818 | PR23131-J  | Wiper   | 1   |                   | Part of Seal Kit, Not Sold Separately                                   |
| 819 | PR23131-K  | Piston Rod Assy. w/ Transfer Tube               | 1   |                   | Reference Only, Special Order<br>Sold only with PR23131-H Transfer Tube |
| 820 | PR23131-SK | Seal Kit, Main Cylinder, Per Each               | 1   |                   |   |

7015-3-03 CYLINDER, SLIDING FLOOR



## 7015-3-04 CYLINDER, PUSHER

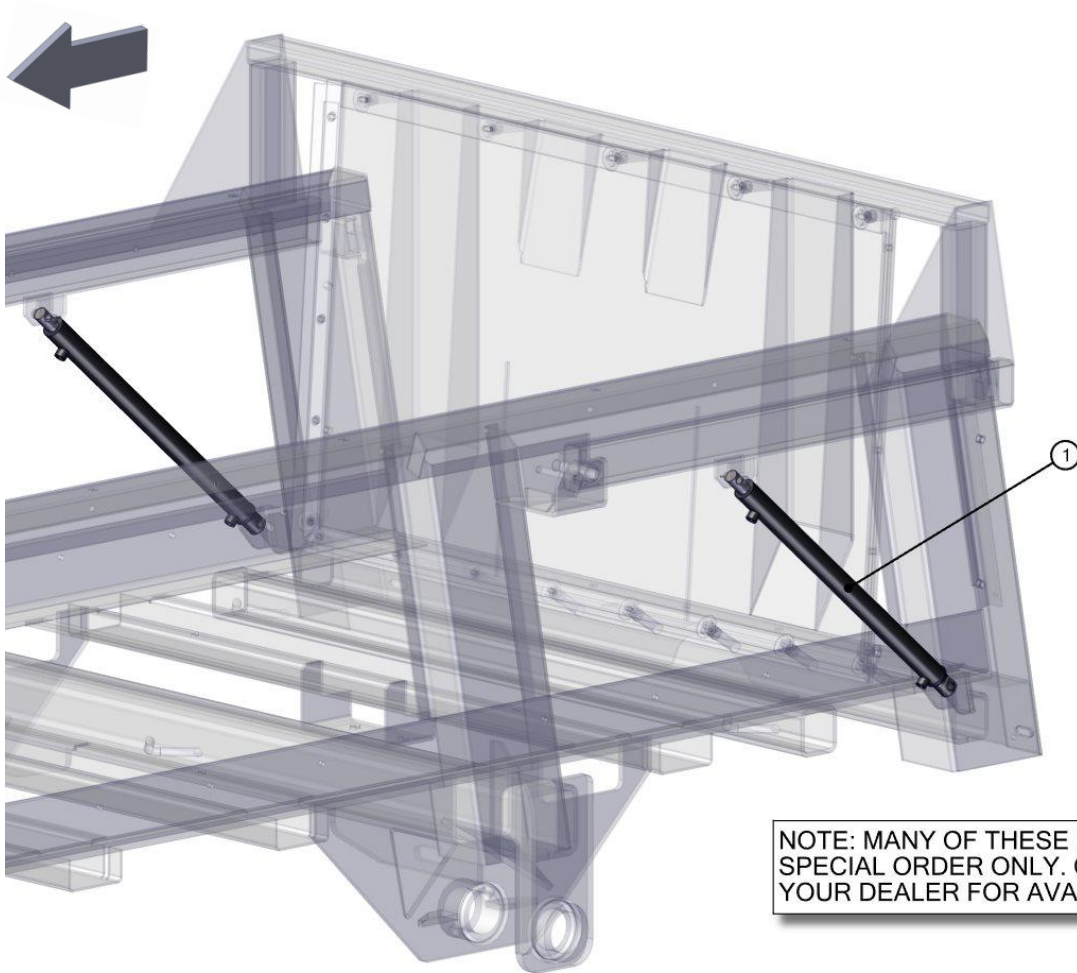
| REF | PART       | DESCRIPTION  | QTY | WILL FIT SN | REMARKS                               |
|-----|------------|--|-----|-------------|---------------------------------------|
| 1   | PR23144    | Secondary Cylinder - Moving Panel w/ Pin through Rod End | 1   |             |                                       |
| 801 | PR23143-SK | Seal Kit, Secondary Cylinder, Per Each                   | 1   |             |                                       |
| 802 | PR23143-F  | Rod Seal   | 1   |             | Part of Seal Kit, Not Sold Separately |
| 803 | PR23143-H  | Lock Ring  | 1   |             | Part of Seal Kit, Not Sold Separately |
| 804 | PR23143-E  | Back Up Ring   | 1   |             | Part of Seal Kit, Not Sold Separately |
| 805 | PR23143-D  | O-Ring   | 1   |             | Part of Seal Kit, Not Sold Separately |
| 806 | PR23143-C  | Rod Seal   | 1   |             | Part of Seal Kit, Not Sold Separately |
| 807 | PR23143-B  | O-Ring   | 1   |             | Part of Seal Kit, Not Sold Separately |
| 808 | PR23143-A  | P/Seal   | 1   |             | Part of Seal Kit, Not Sold Separately |
| 809 | PR23143-M  | 7/8-14 BSF Nut   | 1   |             | Reference Only, Special Order         |



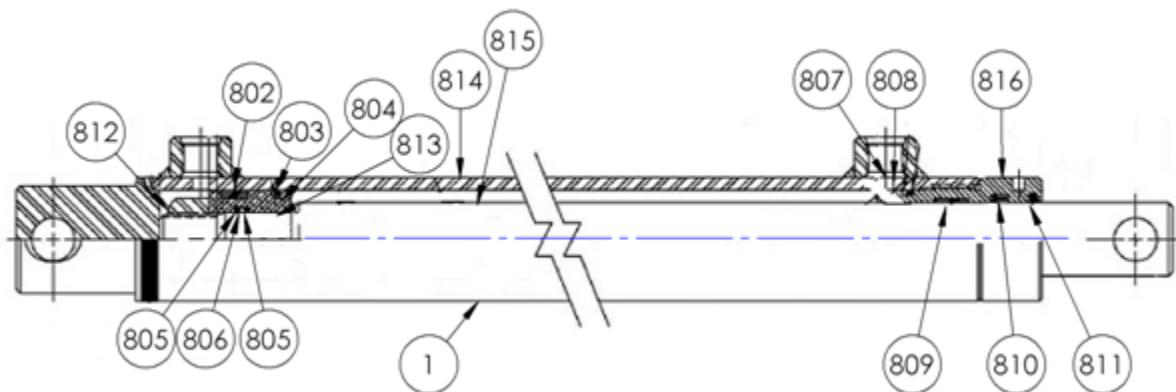


## 7015-3-05 CYLINDER, ENDGATE

| REF | PART       | DESCRIPTION                          | QTY | WILL FIT SN           | REMARKS                               |
|-----|------------|--------------------------------------|-----|-----------------------|---------------------------------------|
| 1   | PR39068    | Cylinder, Endgate, 1.5 bore          | 2   |                       |                                       |
| 802 | PR39068-A  | Wear Ring                            | 1   |                       | Part of Seal Kit, Not Sold Separately |
| 803 | PR39068-B  | TFE Seal                             | 1   |                       | Part of Seal Kit, Not Sold Separately |
| 804 | PR39068-C  | O Ring                               | 1   |                       | Part of Seal Kit, Not Sold Separately |
| 805 | PR39068-D  | Back-Up Ring                         | 2   |                       | Part of Seal Kit, Not Sold Separately |
| 806 | PR39068-E  | O Ring                               | 1   |                       | Part of Seal Kit, Not Sold Separately |
| 807 | PR39068-F  | O Ring                               | 1   |                       | Part of Seal Kit, Not Sold Separately |
| 808 | PR39068-G  | Back-Up Ring                         | 1   |                       | Part of Seal Kit, Not Sold Separately |
| 809 | PR39068-H  | Wear Ring                            | 1   |                       | Part of Seal Kit, Not Sold Separately |
| 810 | PR39068-I  | Loaded U-Cup                         | 1   |                       | Part of Seal Kit, Not Sold Separately |
| 811 | PR39068-J  | Rod Wiper                            | 1   |                       | Part of Seal Kit, Not Sold Separately |
| 812 | PR39068-K  | Locknut                              | 1   |                       | Reference Only, Special Order         |
| 813 | PR39068-L  | Piston                               | 1   |                       | Reference Only, Special Order         |
| 814 | PR39068-M  | Barrel Assembly                      | 1   |                       | Reference Only, Special Order         |
| 815 | PR39068-N  | Rod                                  | 1   |                       | Reference Only, Special Order         |
| 816 | PR39068-OB | Internal Cylinder Head 1 1/2 (Fine)  | 1   | Verify Stamp Location |                                       |
| 817 | PR39068-SK | Seal Kit, Endgate Cylinder, Per Each | 1   |                       |                                       |

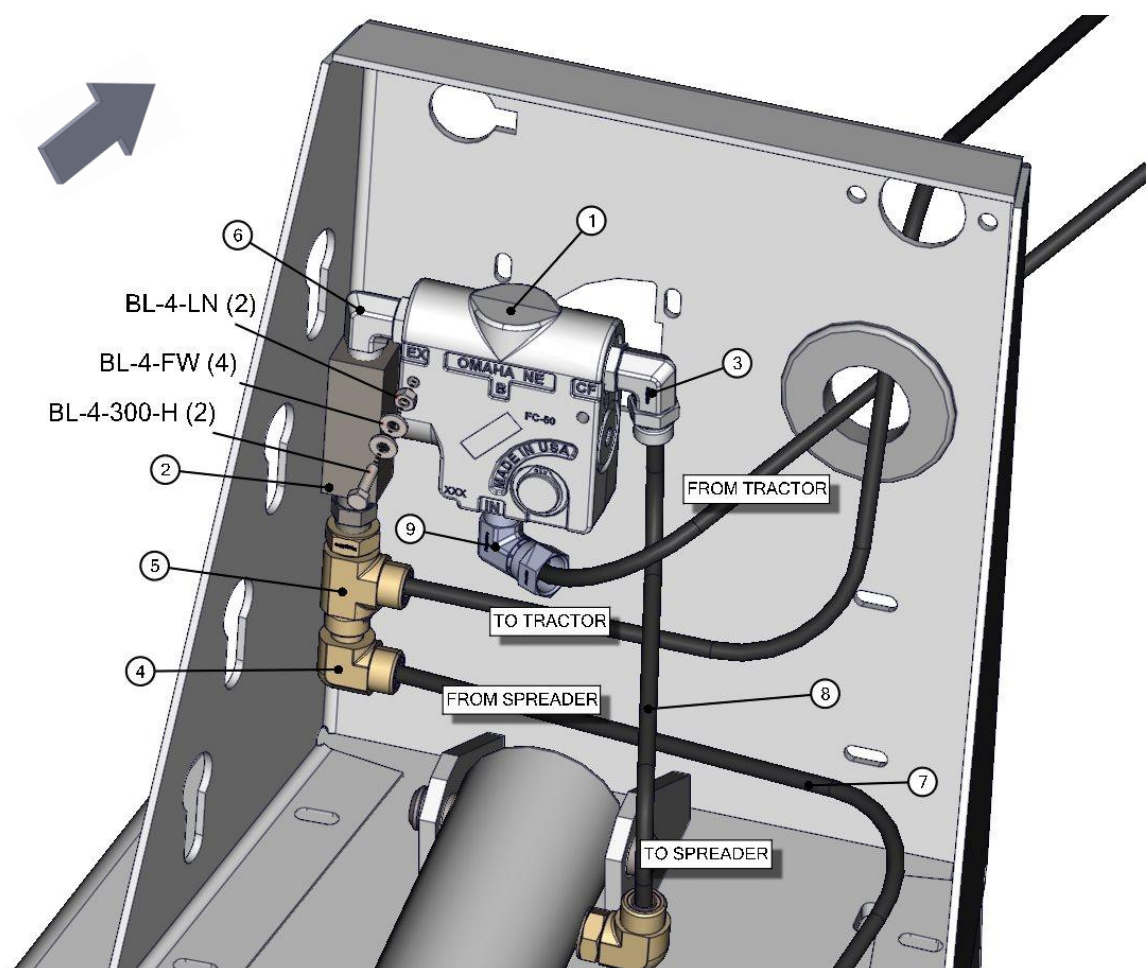


NOTE: MANY OF THESE PARTS ARE SPECIAL ORDER ONLY. CONSULT YOUR DEALER FOR AVAILABILITY



## 7019-3-06 OPT. CONTROL VALVE

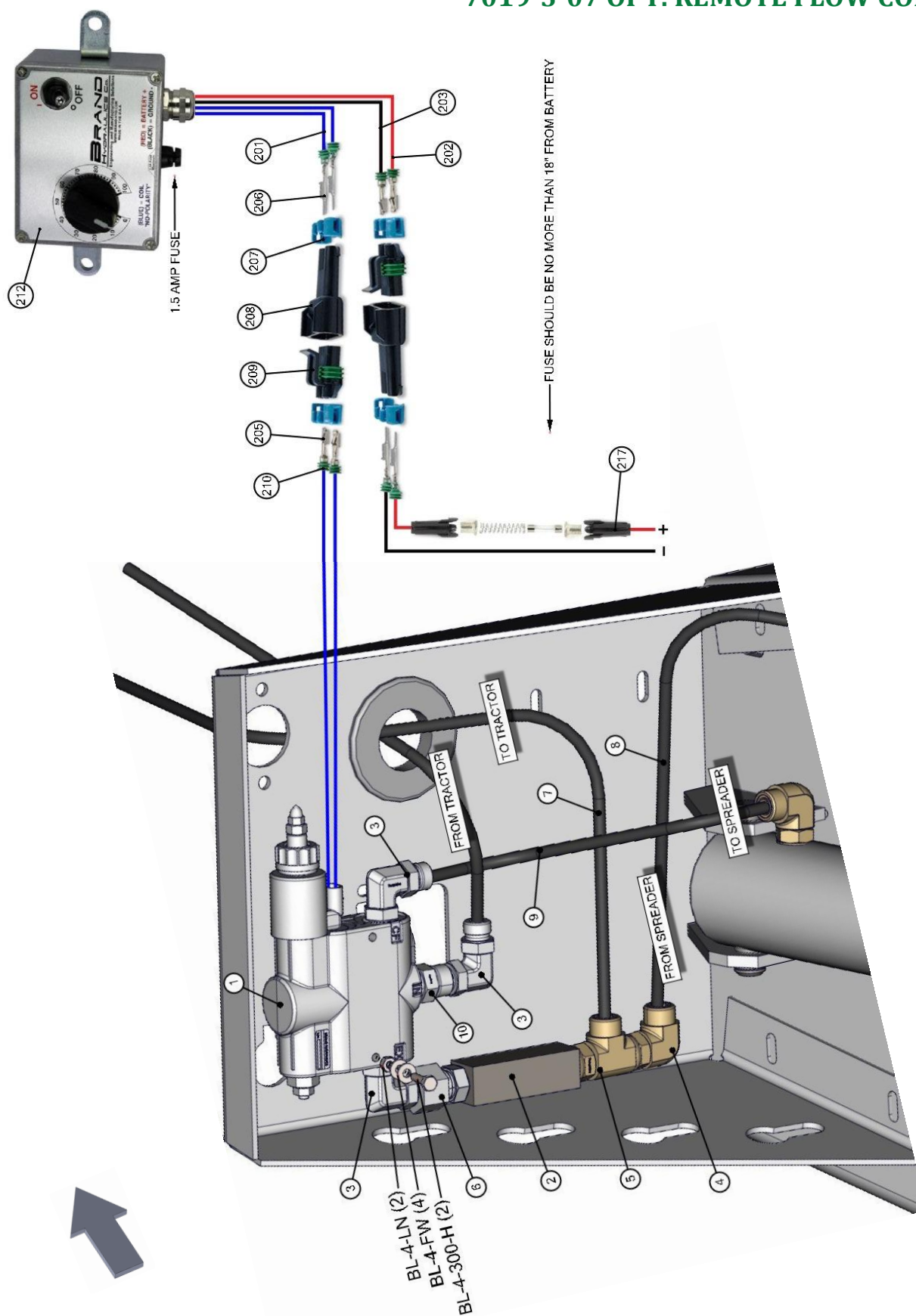
| REF | PART                | DESCRIPTION  | QTY | WILL FIT SN | REMARKS |
|-----|---------------------|--|-----|-------------|---------|
| 1   | HV-FC5510           | Flow Control, #10 SAE, 0-16 GPM, Free Reverse Flow | 1   |             |         |
| 2   | HV-CKV-C1020S       | #10 Parker Check Valve, 5 psi Crack, 15 gpm        | 1   |             |         |
| 3   | A-FF6801-10-10      | Elbow, 5/8 MFF x 5/8 SAE                           | 1   |             |         |
| 4   | A-FF6500-10-10      | Elbow, 10MFF x 10FFFX                              | 1   |             |         |
| 5   | A-FF6804-10-10-10   | Run Tee, 10SAE x 10MFF x 10MFF                     | 1   |             |         |
| 6   | A-6807-10-10        | Elbow, 10SAE x 10SAE                               | 1   |             |         |
| 7   | H8-27-10MFF-10FFFX  | 1/2 Hose, 5/8 Male ORFS x 5/8 Female ORFS          | 1   |             |         |
| 8   | H8-16-10FFFX-10FFFX | 1/2 Hose, 5/8 Female ORFS x 5/8 Female ORFS        | 1   |             |         |
| 9   | A-FF6809-10-10      | Elbow, 10SAE x 10FFFX                              | 1   |             |         |
| 10  | PR70131             | Cover, Flow Control Cutout                         | -1  |             |         |
| 102 | BL-4-LN             | 1/4-20 HEX LN NE ZC                                | 2   |             |         |
| 103 | BL-4-FW             | 1/4 USS FW ZC                                      | 4   |             |         |
| 104 | BL-4-300-H          | 1/4-20 X 3 HEX CAP G5 ZC                           | 2   |             |         |



## 7019-3-07 OPT. REMOTE FLOW CONTROL

| REF | PART                | DESCRIPTION                                      | QTY | WILL FIT SN | REMARKS |
|-----|---------------------|--|-----|-------------|---------|
| 1   | HVE-C122012         | Electronic Flow Control w/free flow reverse      | 1   |             |         |
| 2   | HV-CKV-C1020S       | #10 Parker Check Valve, 5 psi Crack, 15 gpm      | 1   |             |         |
| 3   | A-FF6801-10-12      | Elbow, 10MFF x 12SAE                             | 3   |             |         |
| 4   | A-FF6500-10-10      | Elbow, 10MFF x 10FFFX                            | 1   |             |         |
| 5   | A-FF6804-10-10-10   | Run Tee, 10SAE x 10MFF x 10MFF                   | 1   |             |         |
| 6   | A-FF6507-10-10      | Swivel Straight Adapter, 5/8" FFFX x 5/8" SAE    | 1   |             |         |
| 7   | H8-27-10MFF-10FFFX  | 1/2 Hose, 5/8 Male ORFS x 5/8 Female ORFS        | 1   |             |         |
| 8   | H8-94-8MOR-10FFFX   | 1/2 Hose, 1/2 Male SAE x 5/8 Female ORFS         | 1   |             |         |
| 9   | H8-16-10FFFX-10FFFX | 1/2 Hose, 5/8 Female ORFS x 5/8 Female ORFS      | 1   |             |         |
| 10  | A-6410-12-10        | #12 SAE O-Ring Port Reducer to #10 SAE           | 1   |             |         |
| 102 | BL-4-LN             | 1/4-20 HEX LN NE ZC                              | 2   |             |         |
| 103 | BL-4-FW             | 1/4 USS FW ZC                                    | 4   |             |         |
| 104 | BL-4-300-H          | 1/4-20 X 3 HEX CAP G5 ZC                         | 2   |             |         |
| 201 | ELC-14-BL           | 14 Gauge Wire (Blue)                             | 40  |             |         |
| 202 | ELC-14-R            | 14 Gauge Wire, Red                               | 20  |             |         |
| 203 | ELC-14-BLK          | 14 Gauge Wire, Black                             | 20  |             |         |
| 204 | ELL-25-0            | 1/4 Wire Loom @ft                                | 20  |             |         |
| 205 | EL-30036            | Male Terminal                                    | 4   |             |         |
| 206 | EL-30037            | Female Terminal                                  | 4   |             |         |
| 207 | EL-38035            | Two Contact Clip for Contact Connector           | 4   |             |         |
| 208 | EL-38062            | Male Connector Body                              | 2   |             |         |
| 209 | EL-38063            | Female Connector Body                            | 2   |             |         |
| 210 | EL-39000            | Cable Seal                                       | 8   |             |         |
| 211 | ELT-31703           | Terminal Ring, 16-14 Ga.#10 Blue Insulated Nylon | 2   |             |         |
| 212 | HV-1201             | Brand Flow Valve Electronic Box                  | 1   |             |         |
| 216 | EL-70150            | 1.5 Amp Fuse, Type GMA                           | 1   |             |         |
| 217 | EL-46000            | Inline Fuse Holder                               | 1   |             |         |

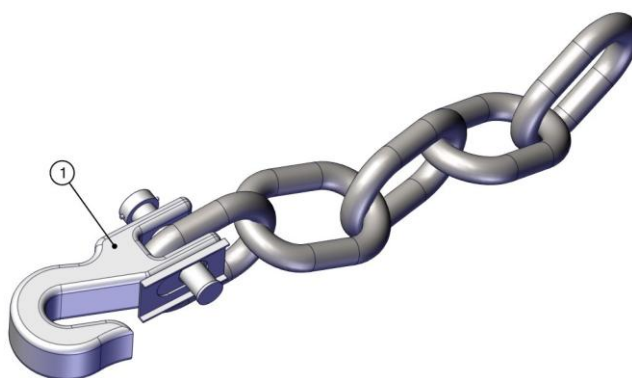
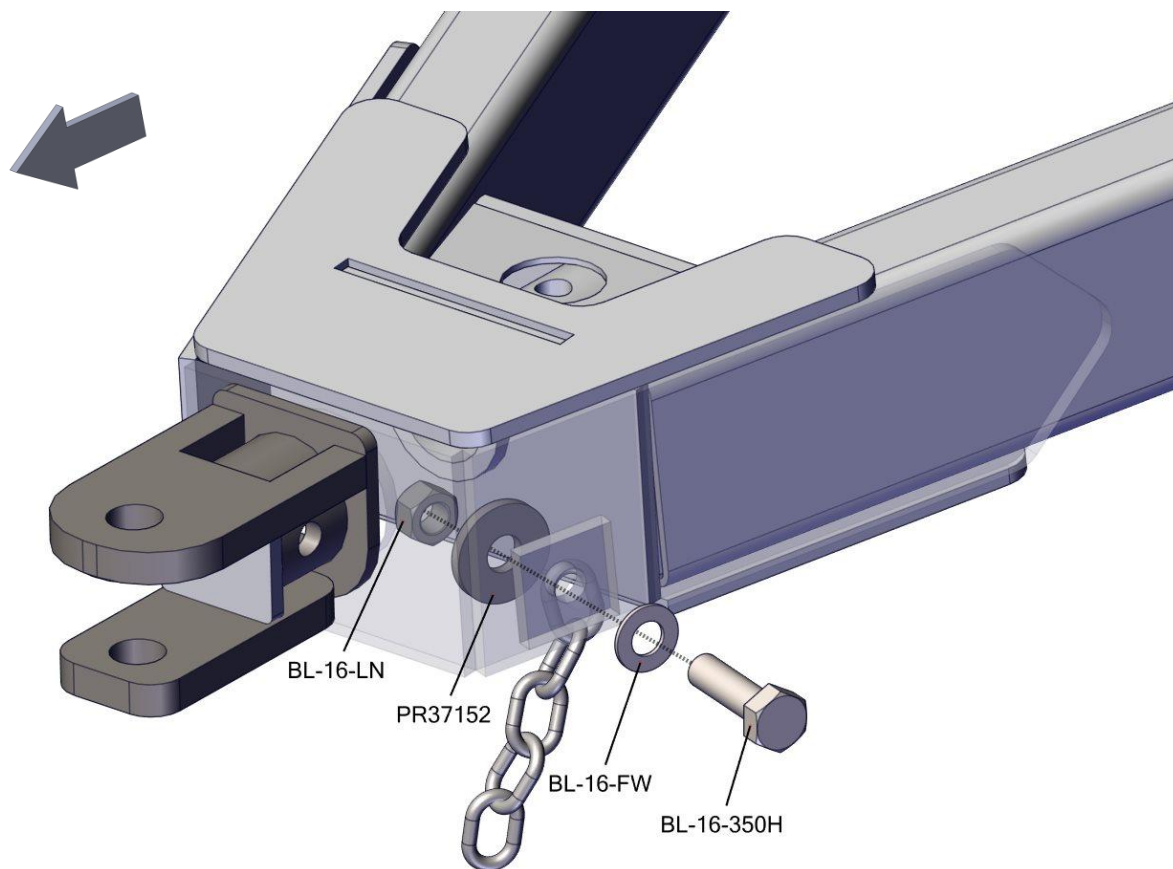
## 7019-3-07 OPT. REMOTE FLOW CONTROL





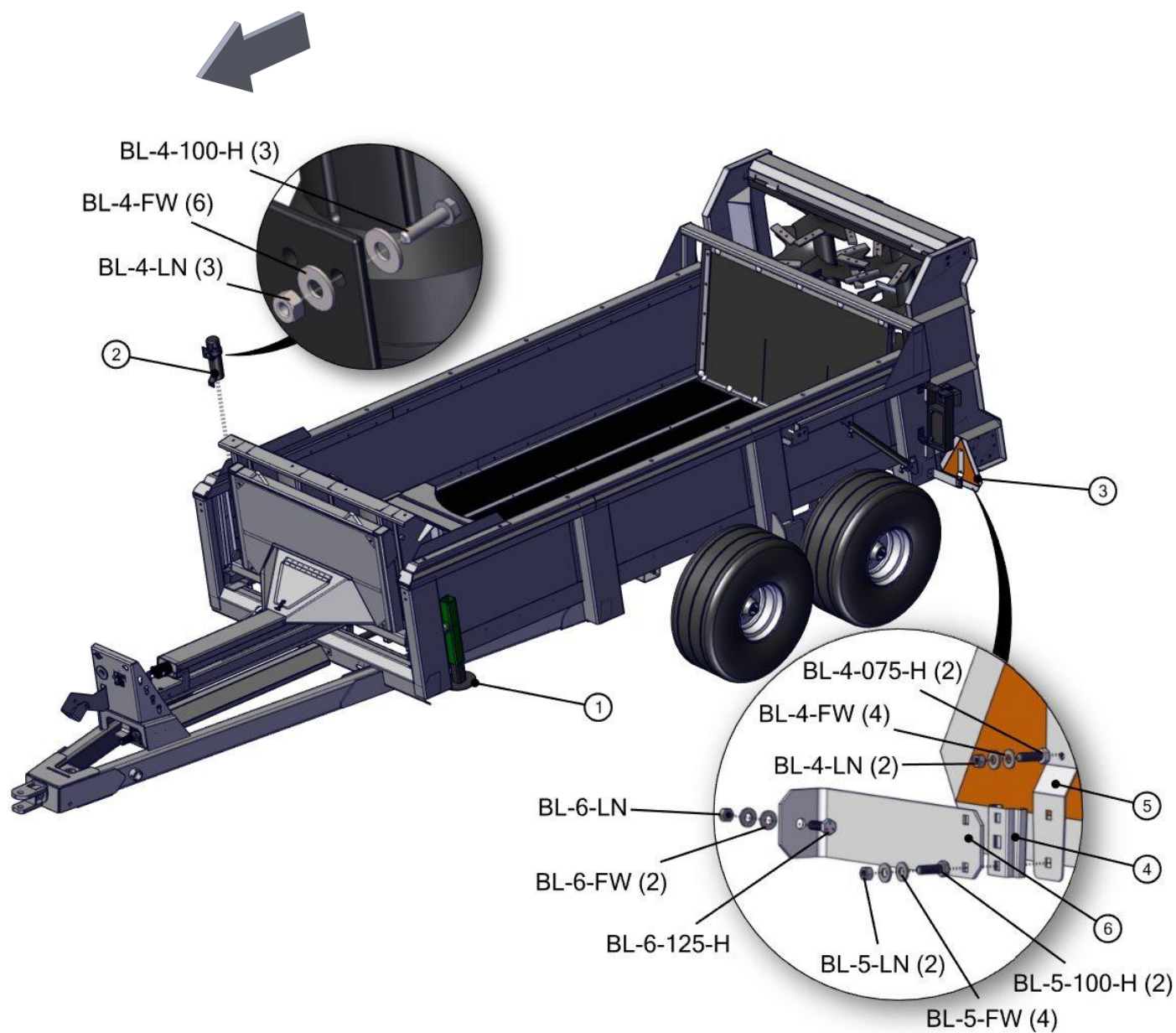
## 7015-4-01 SAFETY CHAIN

| REF | PART       | DESCRIPTION                                     | QTY | WILL FIT SN         | REMARKS |
|-----|------------|---|-----|---------------------|---------|
| 1   | FRM-3167   | Safety Chain, Agricultural, 30,400 lb. Capacity | 1   | 19701-<br>30097001- |         |
| 100 | PR37152    | Washer, Safety Chain                            | 1   |                     |         |
| 101 | BL-16-350H | 1-8 X 3-1/2 HH BOLT ZC G5                       | 1   |                     |         |
| 102 | BL-16-FW   | 1 FW ZC   | 1   |                     |         |
| 103 | BL-16-LN   | 1 LN w/ NYLON INSERTS                           | 1   |                     |         |



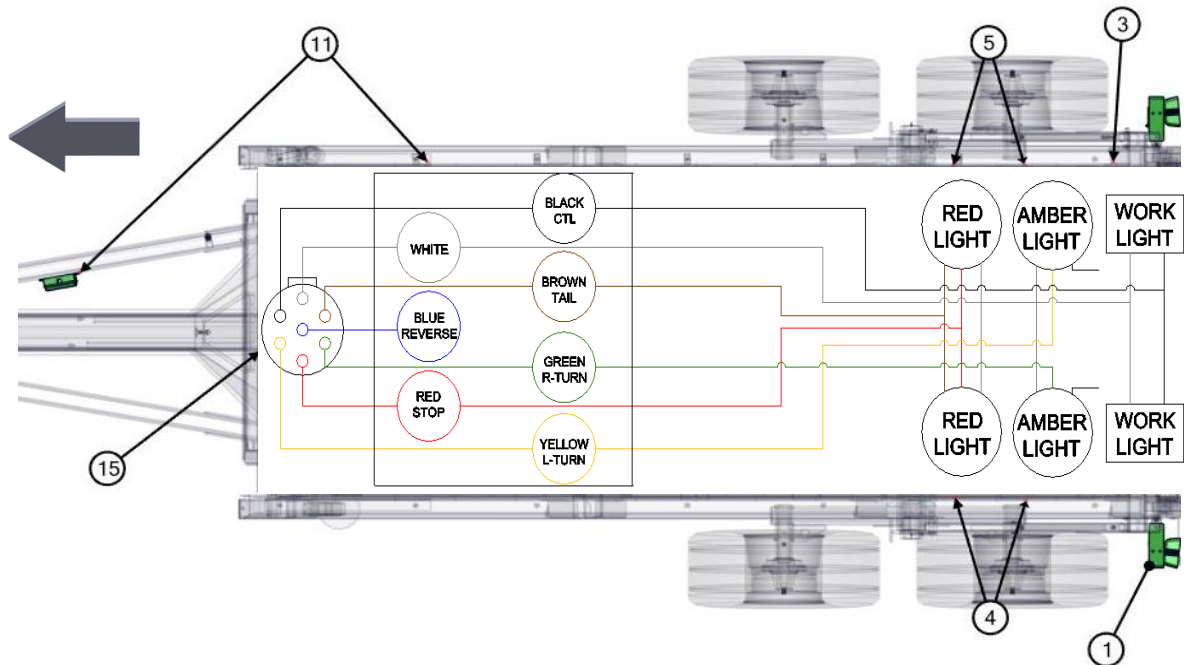
## 7015-4-02 ACCESSORIES

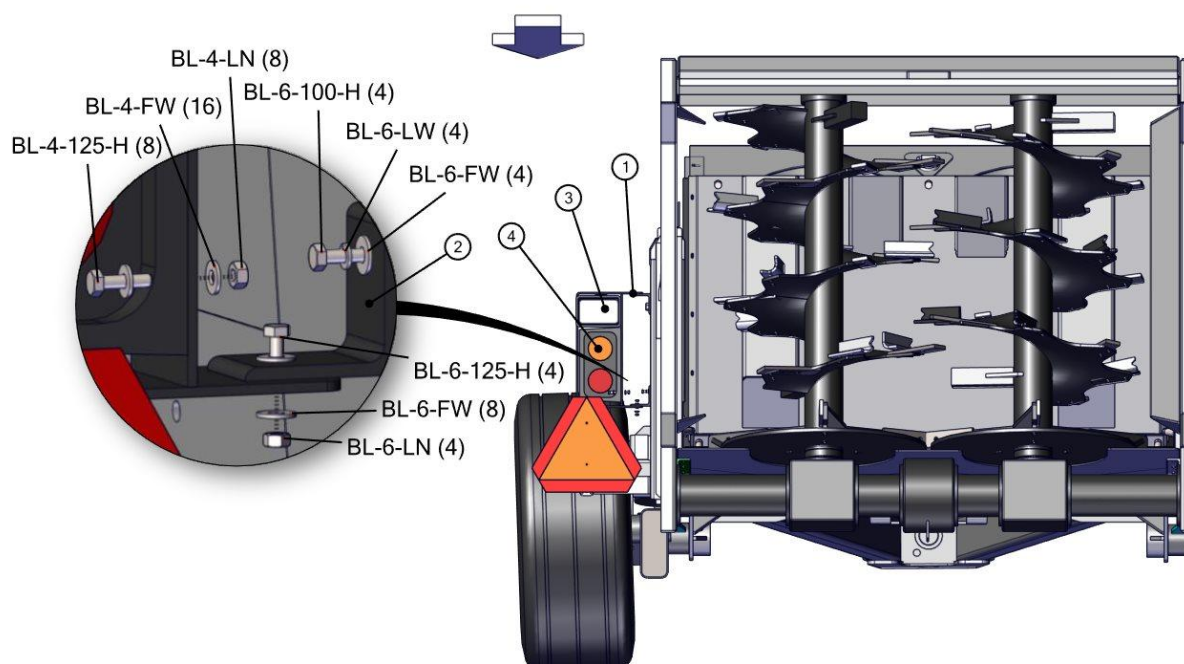
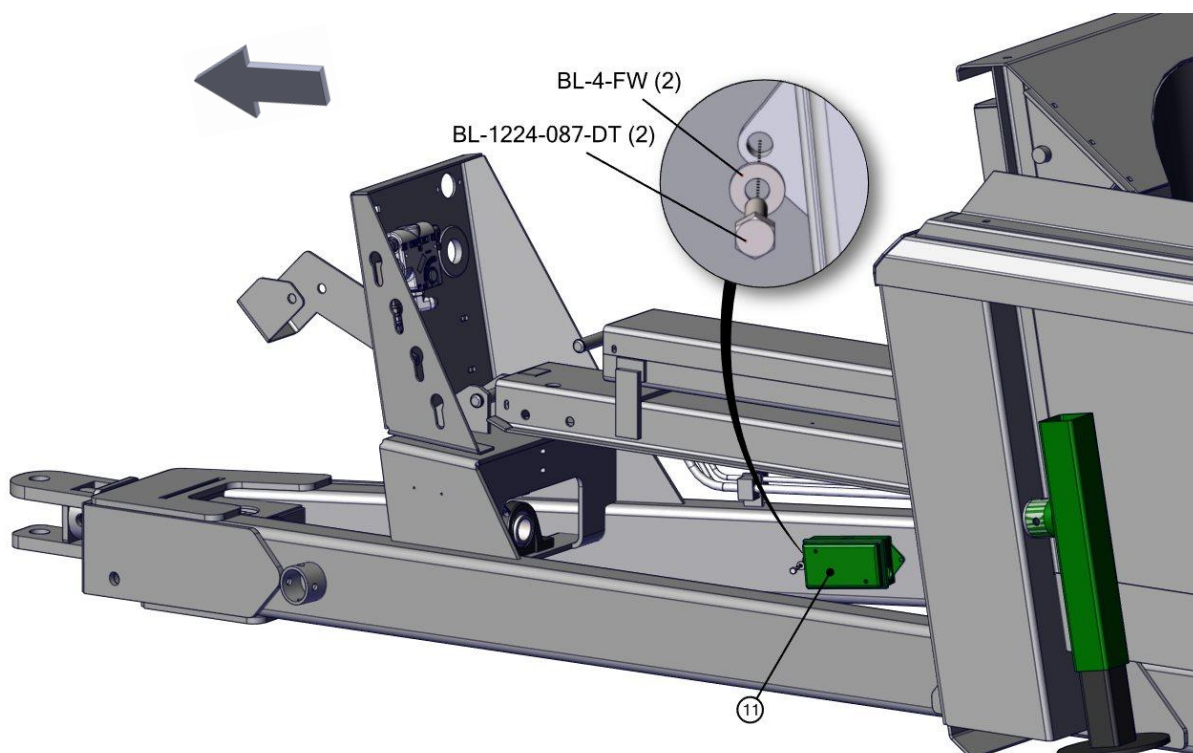
| REF | PART       | DESCRIPTION                               | QTY | WILL FIT SN                         | REMARKS |
|-----|------------|---|-----|-------------------------------------|---------|
| 1   | WH-16216   | Jack Weldment, Sidewind Jack, 9,000 lb.   | 0   | 71009002-<br>70209006-<br>-70318008 |         |
| 1   | WH-16218   | Ram Sidewind Jack, 8,000 lb.              | 1   | 70318009-                           |         |
| 2   | MAN-67670  | Manual Holder/Canister                    | 1   |                                     |         |
| 3   | SMV-PL     | SMV Sign, Metal                           | 1   |                                     |         |
| 4   | SMV-S      | Socket for Spade Mount                    | 1   |                                     |         |
| 5   | SMV-SM     | Spade Mount                               | 1   |                                     |         |
| 6   | PR39117    | Bracket, SMV Sign, Spreader               | 1   |                                     |         |
| 7   | MAN-0057   | Manual, Parts & Operation, HR400 Spreader | 1   |                                     |         |
| 100 | BL-4-075-H | 1/4-20 X 3/4 HH C/S BOLT G5 ZC            | 2   |                                     |         |
| 101 | BL-4-100-H | 1/4-20 X 1 HH C/S G5 ZC                   | 3   |                                     |         |
| 102 | BL-4-FW    | 1/4 USS FW ZC                             | 10  |                                     |         |
| 103 | BL-4-LN    | 1/4-20 HEX LN NE ZC                       | 5   |                                     |         |
| 104 | BL-5-100-H | 5/16 UNC X 1 HH C/S BOLT GR5 ZINC         | 2   |                                     |         |
| 105 | BL-5-FW    | 5/16 USS FW ZC                            | 4   |                                     |         |
| 106 | BL-5-LN    | 5/16-18 HEX LN NE ZC                      | 2   |                                     |         |
| 107 | BL-6-125-H | 3/8-16 X 1-1/4 HHCS G5 ZC                 | 1   |                                     |         |
| 108 | BL-6-FW    | 3/8 USS FW ZC                             | 2   |                                     |         |
| 109 | BL-6-LN    | 3/8-16 FIN H LN NE A563 GA ZC             | 1   |                                     |         |
| 801 | WH-16402-A | Pin & Chain Assembly for WH-16402         | 0   | 71009002-                           |         |
| 802 | WH-16402-B | Weld-On Hub, Implement Side, For WH-16402 | 0   | WH-16215<br>WH-16216<br>71009002-   |         |
| 803 | WH-16402-C | Weld-On Hub, Jack Side, For WH-16402      | 0   | 71009002-                           |         |
| 804 | WH-16218-A | Weld-On Hub, Implement Side, For WH-16218 | 1   |                                     |         |



## 7015-4-03 LIGHT ASSEMBLY, LED

| REF | PART           | DESCRIPTION  | QTY | WILL FIT SN | REMARKS          |
|-----|----------------|--|-----|-------------|------------------|
| 1   | PR63004        | Light Bracket  | 2   |             |                  |
| 2   | PR70130        | Light Bracket Mount  | 4   |             |                  |
| 3   | EL-1233        | Light, Auxiliary Work Light, Clear, Trapezoid Beam, TL#80394 | 2   |             | Replaces EL-1201 |
| 4   | EL-1501        | LED Ag Light, LH, w/ brake light                             | 1   |             |                  |
| 5   | EL-1502        | LED Ag Light, RH, w/ brake light                             | 1   |             |                  |
| 8   | EL-40602-342   | Harness, Right Side Spreader Light                           | 1   |             |                  |
| 9   | EL-40603-426   | Harness, Left Side Spreader Lights                           | 1   |             |                  |
| 10  | EL-40604-13    | Harness, Work Lights, Spreader                               | 2   |             |                  |
| 11  | ELE-15-964     | Junction Box, 4x8x3.5deep, plastic, w/knockouts & plugs      | 1   | 19426       |                  |
| 12  | EL-50781-55    | 7 Conductor x 55 Long, Harness                               | 1   |             |                  |
| 13  | EL-0038        | Grommet, ¾ id, 1-1/16 Groove Dia, 1/4 Groove Width           | 2   |             |                  |
| 14  | ELC-127-144    | 12 Gauge 7 Conductor Spiral Cord, 12 Long                    | 1   |             |                  |
| 100 | BL-4-125-H     | 1/4-20 X 1-1/4 HEX CAP G5 ZC                                 | 8   |             |                  |
| 101 | BL-4-FW        | 1/4 USS FW ZC  | 18  |             |                  |
| 102 | BL-4-LN        | 1/4-20 HEX LN NE ZC  | 8   |             |                  |
| 103 | BL-6-100-H     | 3/8-16 X 1 HH C/S BOLT G5 ZC                                 | 4   |             |                  |
| 104 | BL-6-125-H     | 3/8-16 X 1-1/4 HHCS G5 ZC                                    | 4   |             |                  |
| 105 | BL-6-FW        | 3/8 USS FW ZC  | 12  |             |                  |
| 106 | BL-6-LW        | 3/8 SPLIT LW ZC  | 4   |             |                  |
| 107 | BL-6-LN        | 3/8-16 FIN H LN NE A563 GA ZC                                | 4   |             |                  |
| 108 | BL-1224-087-DT | 12-24 X 7/8, DRILL AND TAP SCREW                             | 2   |             |                  |

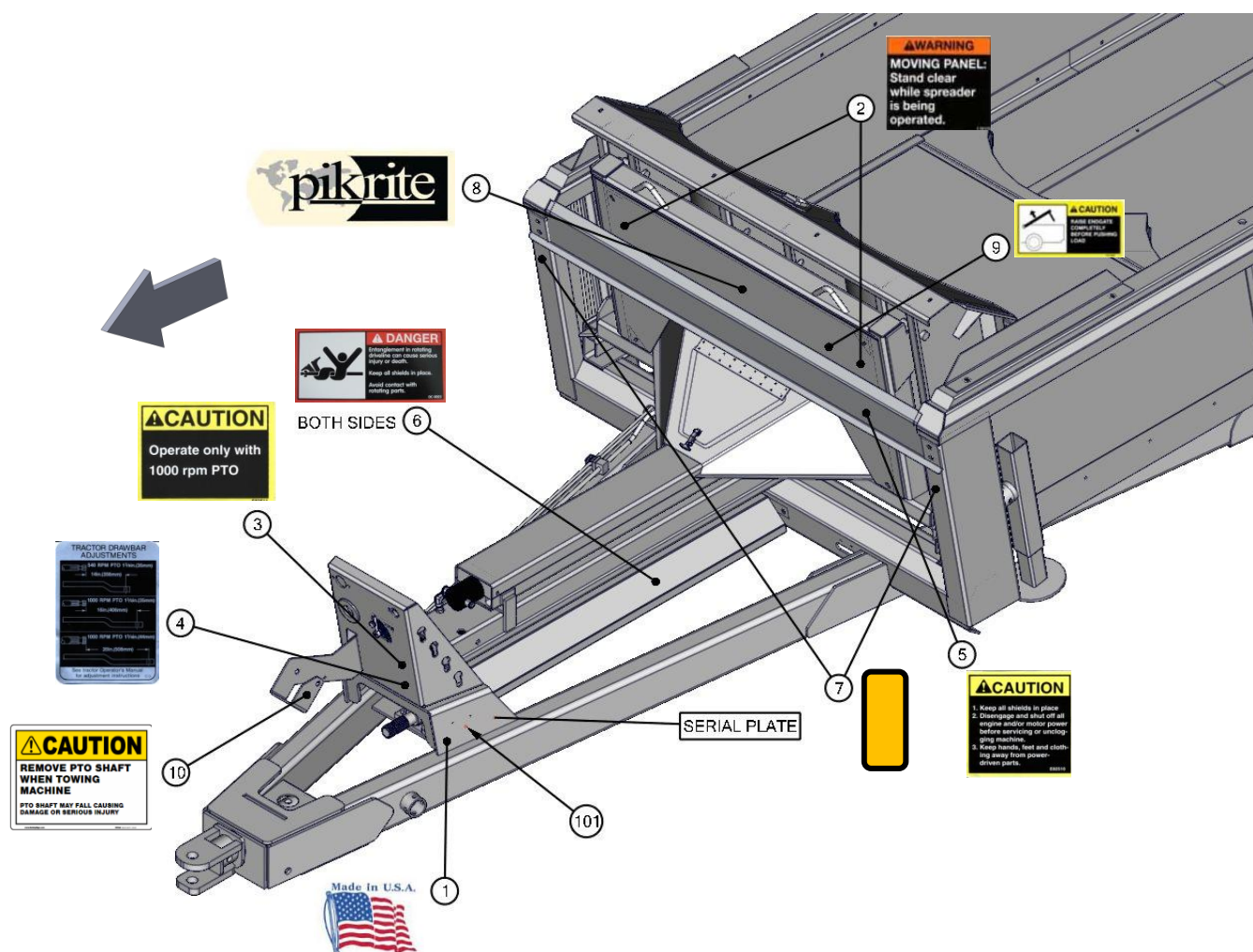






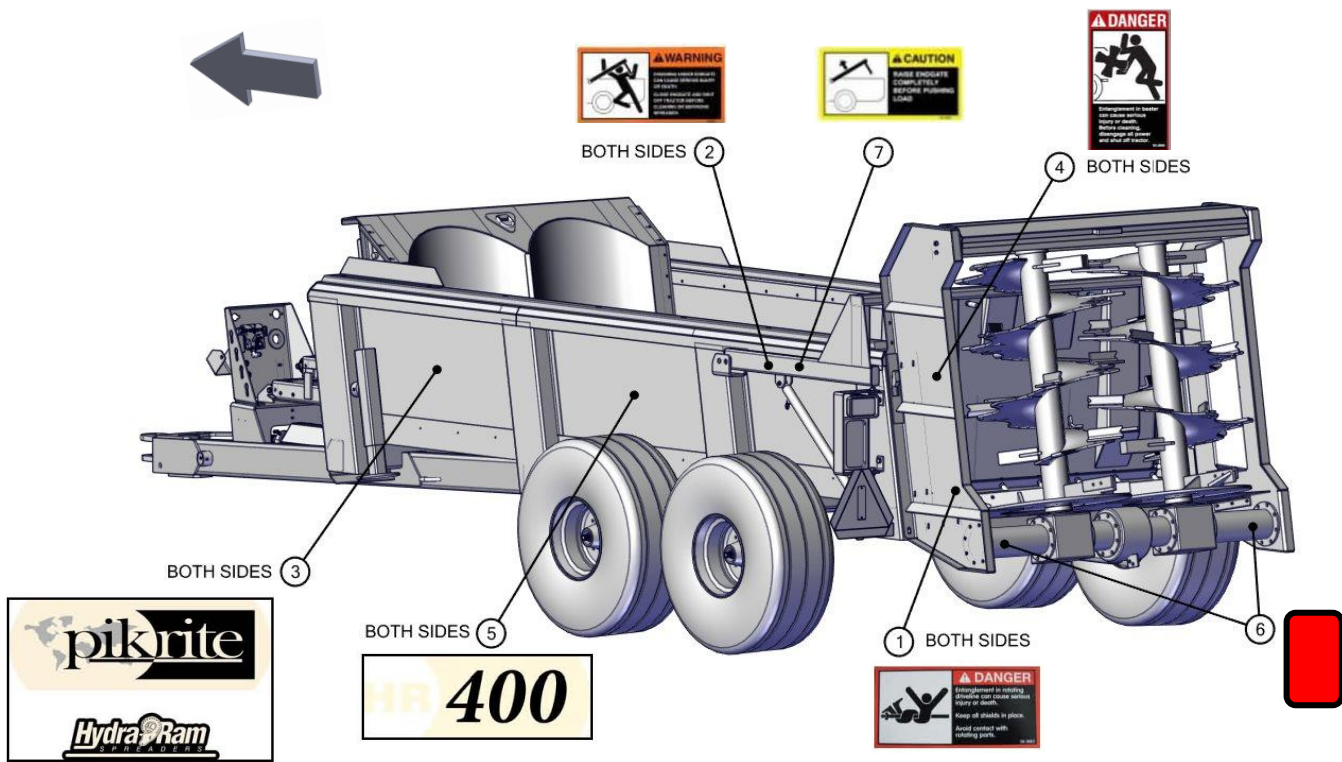
## 7015-4-04 FRONT DECALS

| REF | PART     | DESCRIPTION   | QTY | WILL FIT SN | REMARKS |
|-----|----------|---|-----|-------------|---------|
| 1   | DC-0011  | Decal, All, 'Made in USA', White Back w/ Red & Blue Letters | 1   |             |         |
| 2   | DC-0020  | Decal, Warning, Moving Panel                                | 2   |             |         |
| 3   | DC-0021  | Decal, Caution, 1000 rpm PTO                                | 1   |             |         |
| 4   | DC-0022  | Decal, Tractor Drawbar Adjustments                          | 1   |             |         |
| 5   | DC-0023  | Decal, Caution, Keep All Shields In Place                   | 1   |             |         |
| 6   | DC-0025  | Decal, Danger, Entanglement In Rotating Drive               | 1   |             |         |
| 7   | EL-1226  | Decal Reflector, Rectangle, Yellow, 2x3.5, Adhesive         | 2   |             |         |
| 8   | DC-0097  | Pik Rite Logo, Large, 8 x 22.8                              | 1   |             |         |
| 9   | DC-0038  | Decal, Caution, Raise Endgate Completely                    | 1   |             |         |
| 10  | DC-0221  | Decal, Caution, Stationary Use                              | 1   |             |         |
| 101 | RI-3-6-P | Pop Rivets 3/16 x 3/8 Domed, .375 head, ea.                 | 2   |             |         |



## 7015-4-05 SIDE DECALS

| REF | PART    | DESCRIPTION                                      | QTY | WILL FIT SN | REMARKS |
|-----|---------|--|-----|-------------|---------|
| 1   | DC-0025 | Decal, Danger, Entanglement In Rotating Drive    | 2   |             |         |
| 2   | DC-0026 | Decal, Warning, Crushing Under Endgate           | 2   |             |         |
| 3   | DC-0107 | Pikrite/Hydra-Ram Spreaders 14.23 x 22.8         | 2   |             |         |
| 4   | DC-0030 | Decal, Danger, Entanglement In Beater            | 2   |             |         |
| 5   | DC-0098 | Model Number, HR400, 8 x 22.5                    | 2   |             |         |
| 6   | EL-1227 | Decal Reflector, Rectangle, Red, 2x3.5, Adhesive | 2   |             |         |
| 7   | DC-0038 | Decal, Caution, Raise Endgate Completely         | 1   |             |         |





Pik Rite, Inc. provides a limited warranty assuring any new Hydra-Pull Spreader to be free from defects in material and workmanship for a period of two (2) years from the original date of purchase. Pik Rite will repair or replace, at its option and without charge, any defective or malfunctioning part (excluding items of normal wear or misuse) of the spreader for this allotted time.

**PIK RITE MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE.**

## CUSTOMER'S RESPONSIBILITY

It is the customer and/or operator's responsibility to read the Operator's Manual, to operate, lubricate, maintain and store the equipment in accordance with all instructions and safety procedures. Failure of the operator to read the operators manual is a misuse of this equipment.

It is the customer and/or operators responsibility to inspect the product and to have any part(s) repaired or replaced when continued operation would cause damage or excessive wear to other parts or cause a safety hazard. It is the customer's responsibility to deliver the product to the authorized dealer, from whom the spreader was purchased, for service or replacement of defective parts, which are covered by warranty.

It is the customer's responsibility for any cost incurred by the dealer for hauling the product for the purpose of performing a warranty obligation or inspection.

## WARRANTY INFORMATION

Make certain the warranty registration card has been forwarded to:

Pik Rite, Inc.  
60 Pik Rite Lane  
Lewisburg, PA 17837

Always give your dealer the serial number of your Pik Rite, Inc. product when ordering parts or requesting service or other information.

In the space provided record the model number, the serial number and the date of purchase to assist in providing you with prompt and efficient service.

MODEL NUMBER: HR400

DEALER: \_\_\_\_\_

SERIAL NUMBER: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PURCHASE DATE: \_\_\_\_\_

\_\_\_\_\_

PHONE: \_\_\_\_\_

SALESMAN: \_\_\_\_\_

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