

BUILT TO WORK THE WAY YOU WORK



OPERATION & PARTS MANUAL



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PROUDLY MADE IN THE USA



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(SPECIFICATIONS AND DESIGN SUBJECT TO CHANGE WITHOUT NOTICE)

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)



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OPERATOR'S MANUAL

SAFETY



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 personal injury.

Follow recommended precautions and safe operating practices

⚠ DANGER

⚠ WARNING

⚠ CAUTION

UNDERSTAND SIGNAL WORDS

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

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.



FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your Pik Rite dealer.

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.



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.



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.



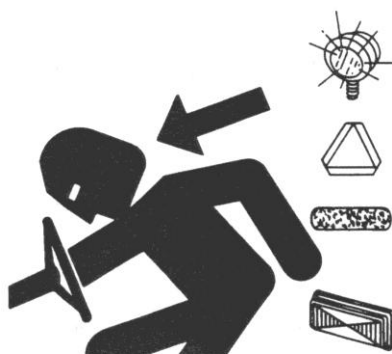
WEAR PROTECTIVE CLOTHING

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.



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.



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

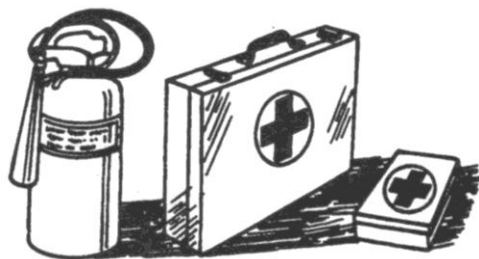


PARK SPREADER SAFELY

Park spreader on a level surface and block wheels.

Close endgate.

Secure jackstand with pin.



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.

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.

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.



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.



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.

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.



WARNING: DO NOT CUT OR WELD ON VERTICAL BEATER ATTACHMENT, SERIOUS INJURY OR DEATH COULD OCCUR WHEN OPERATING

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.



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.



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

PREPARING THE TRACTOR

APPROVED TRACTORS

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 tractors with a drawbar size of less than 1-1/2 x 3 in.

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

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

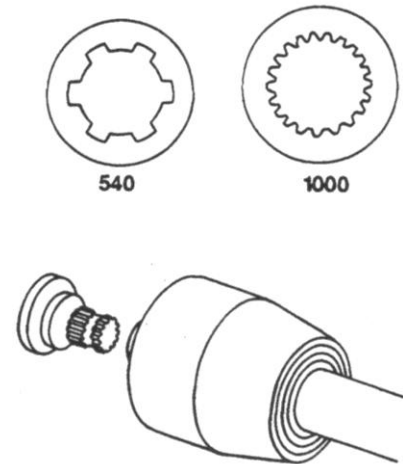
One selective control valve is required to operate the spreader.

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

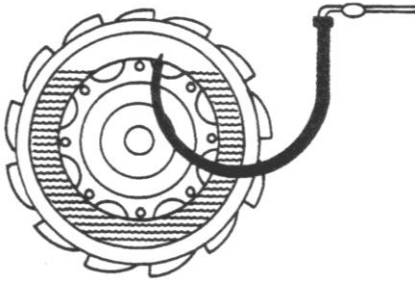
CHOOSING CORRECT PTO SPEED

MODEL: HR 400 – 1000 rpm std.

IMPORTANT: 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.



PREPARING THE TRACTOR

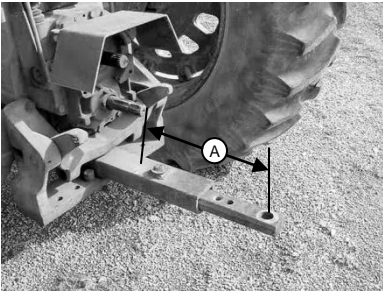


BALLASTING THE TRACTOR

CAUTION: Do not tow loads that weigh more than twice the tractor weight. (See Recommended Maximum Towing Speed in Transporting section.)

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

POSITIONING DRAWBAR



IMPORTANT: 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.

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

PTO Speed	Dimension (A)
1000 rpm -1-3/8	406 mm (16 in.)
1000 rpm-1/3/4	508mm (20in.)

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

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.

SETTING HYDRAULIC SPEED ENDGATE OPERATION

IMPORTANT: 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).

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 operator's manual.)

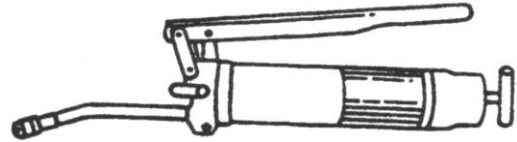
PREPARING THE SPREADER

PREPARING THE SPREADER

LUBRICATING THE MACHINE

Be sure the machine has been adequately lubricated.

(See Lubrication and Maintenance page.)

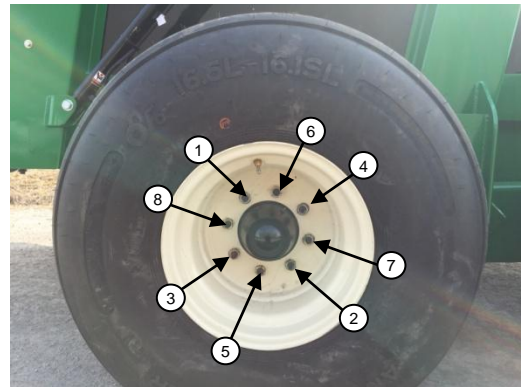


TIGHTENING WHEEL HARDWARE

IMPORTANT: 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 170 lb-ft of torque 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
425/65 R 22.5 Truck Tires	22.5 x 13	115 PSI



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

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.



CONTROLS

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.

OPERATING THE ENDGATE

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

Operate the endgate with the second auxiliary control valve lever.

WARNING: Endgate is not a metering device. Doing so may cause damage to the spreader.



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

ATTACHING THE SPREADER

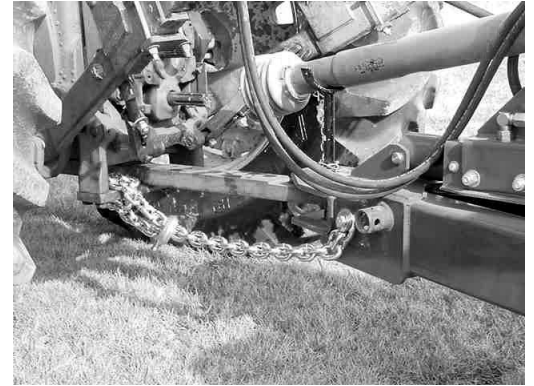
ATTACHING SPREADER

CAUTION: 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.

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

2. Lock safety hook onto chain.



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.



CONNECT HYDRAULIC HOSES

CAUTION: 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.



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.



ATTACHING THE SPREADER

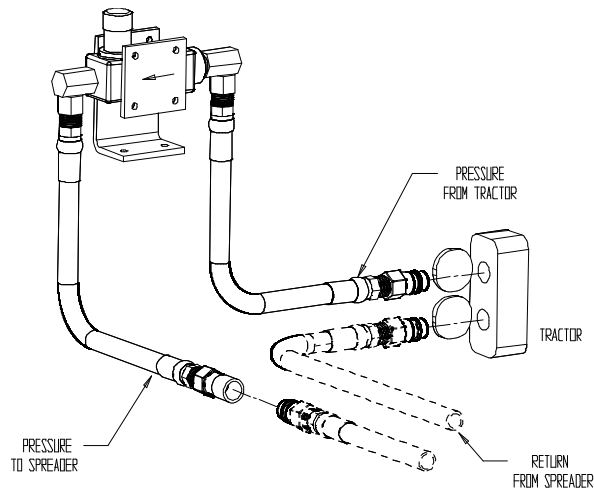
CONNECTING HYDRAULIC HOSES

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.)



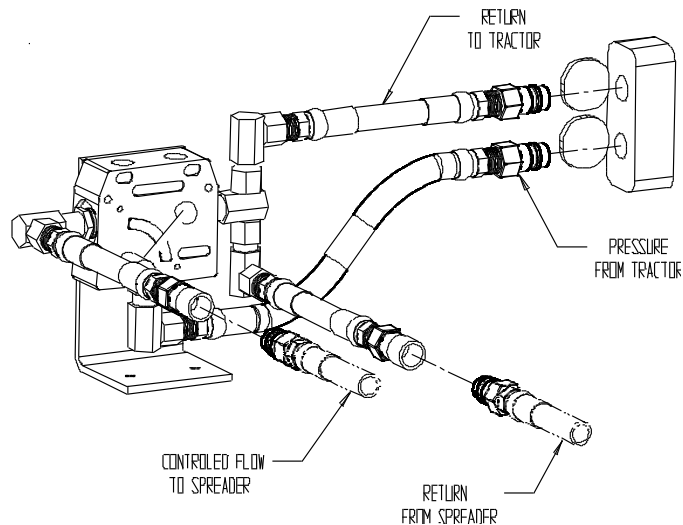
CONNECTING HYDRAULIC HOSES

TRACTOR WITH OPEN CENTER HYDRAULIC SYSTEM

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

Attach hoses accordingly.

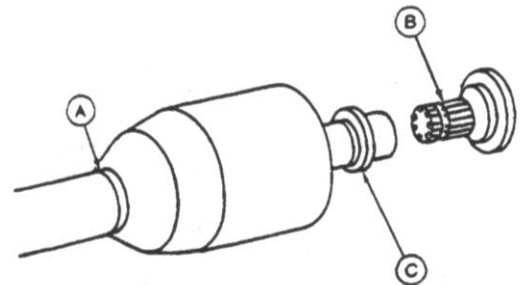
(Diagram shows unloading configuration, flow reverses to retract.)



ATTACHING DRIVELINE

IMPORTANT: 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

DETACHING THE SPREADER

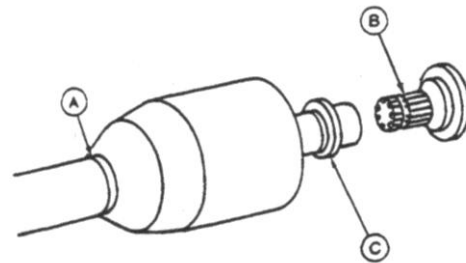
DETACHING SPREADER

1. Remove jackstand from storage position, place and secure in lift position.
2. Detach safety chain.
3. Remove hitch pin.
4. Disconnect hoses and control valve. Store on spreader.



DETACHING DRIVELINE

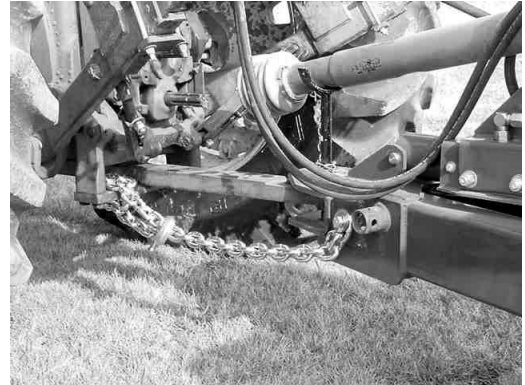
1. Support driveline (A) and pull rearward on collar (C) to release driveline from tractor PTO (B).
2. When possible store driveline in driveline cradle provided with machine.
3. Replace tractor PTO shields.



TRANSPORT

USING A SAFETY CHAIN

CAUTION: 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.



1. Attach safety tow chain

LIGHTING

CAUTION: 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-Ram Dealer for available lighting kit



TOWING LOADS






CAUTION: 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.

RECOMMENDED MAXIMUM TOWING SPEED

Gross Tractor Weight	COMBINED WEIGHT OF SPREADER AND LOAD			
				
<u>Tractor Weight</u>				

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

OPERATING THE SPREADER

OPERATING THE SPREADER

PREOPERATING CHECKS

1. Be sure spreader does not contain any foreign objects
2. Check for correct hydraulic hookup. Raise endgate fully. Engage beaters
3. Retract the pusher, disengage beaters
4. Close endgate

LOADING THE SPREADER

CAUTION: 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.



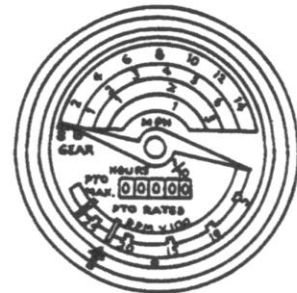
PREPARE TO UNLOAD THE SPREADER

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

1. Start beater by engaging PTO slowly at low engine rpm. Increase to "PTO RATED" speed.

NOTE: For best spreading results, operate tractor at "PTO RATED" speed.

WARNING: Do not operate the pusher without running the beaters as this may damage the spreader



OPERATING THE SPREADER

RAISE ENDGATE

IMPORTANT: Contact of sliding floor/moving panel with endgate will cause damage. To avoid contact with moving panel, 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.



UNLOADING SPREADER USING METERING VALVE

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

Note: 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, retract the pusher, disengage PTO, and lower endgate.

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 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.

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.

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.

NOTE: Although cleaning regularly is recommended, it is only necessary during extended *periods of subfreezing temperatures*.

OPERATING THE SPREADER

CLEAN WALKING BEAM

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



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.



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

LUBRICATION & MAINTENANCE

LUBRICATION & MAINTENANCE

CAUTION: 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.

OBSERVING INTERVALS

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

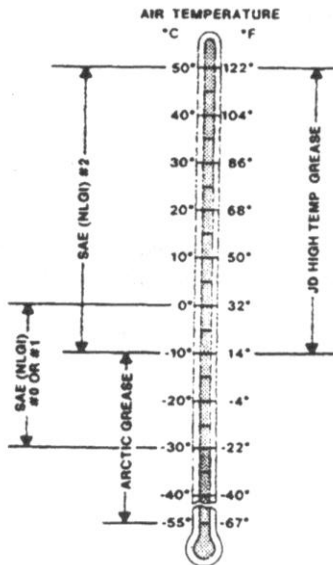


SELECTING GREASE

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.

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



SELECTING GEAR CASE OIL

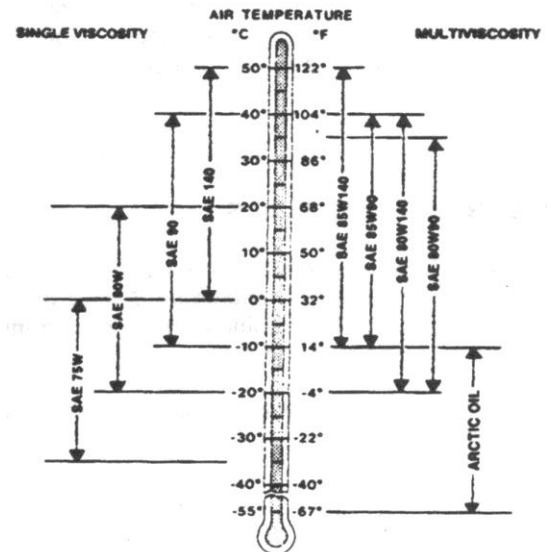
Depending upon the expected air temperature range during the drain interval, use oil viscosity shown on the adjoining temperature chart.

Approved gear lube: 80W90

Also:

- 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 & MAINTENANCE

SERVICE INTERVALS

Lubricate driveline every 8 hrs

- Lubricate top beater bearings every 40 hrs
- Check gear case oil level every 8 hrs
- Check tires every 8 hrs
- Check axle hub oil every 8 hrs

EVERY 50 HOURS

- Tighten wheel hardware
- Lubricate walking beam pivots

EVERY 250 HOURS

- Lubricate endgate pivots

SERVICE AS REQUIRED

- Slip the clutch

GEARBOX

- Change lubricant every 6,000 loads

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.

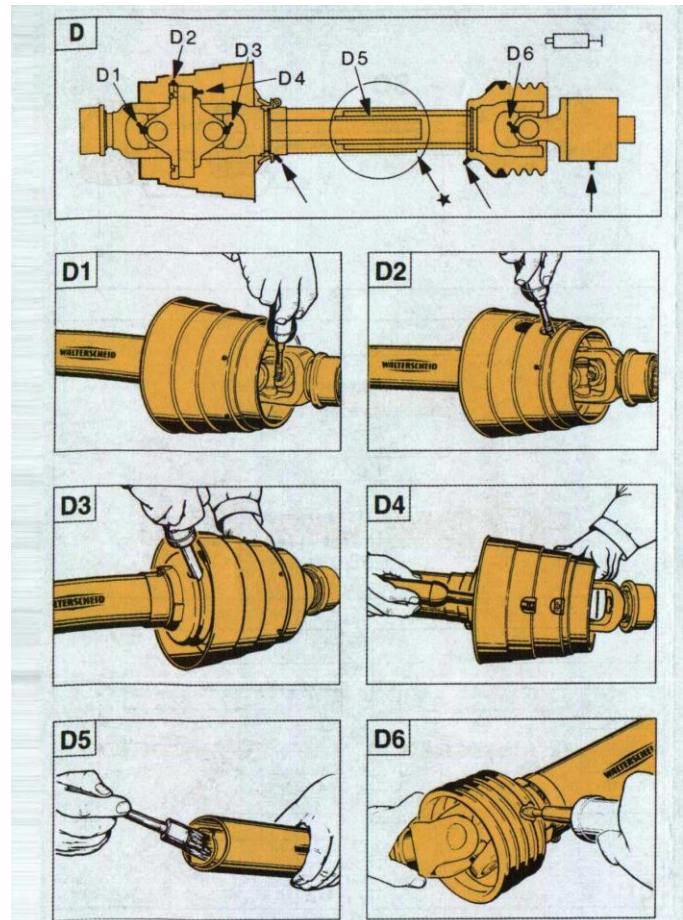
The key point is that each CV has one zerk in a bearing cap and it is this zerk that is most important since it feeds the inboard cross kit as well as the the ball and socket of the CV. The user needs to understand that the zerk in the cap should receive **15-20 pumps** of grease each day.

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.

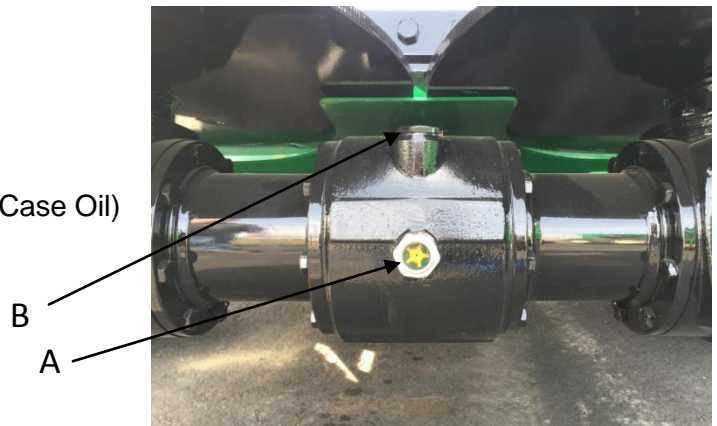


LUBRICATION & MAINTENANCE

CHECK GEAR CASE OIL LEVEL

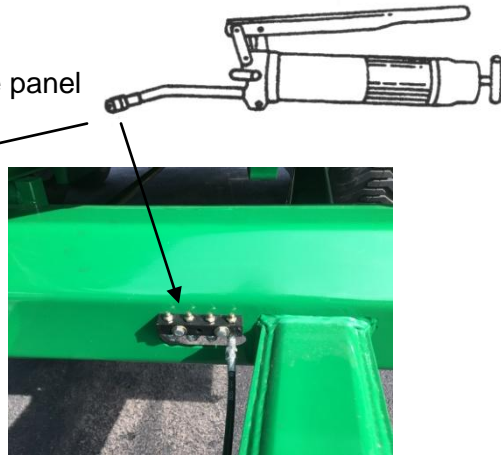
With spreader on level ground, check oil level at the sight glass on the center gearcase."A"

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



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



WHEELS AND TIRES

Drop center wheels with recapped truck tires or implement tires are available.

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.

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	22.5 x 16	40 PSI
425/65 R 22.5 Truck Tires	22.5 x 13	115 PSI



LUBRICATION & MAINTENANCE

LUBRICATE WALKING BEAM PIVOTS

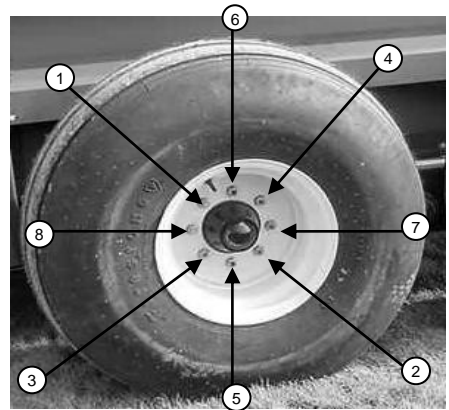
1. Place a jack under the spreader main frame.
2. Raise spreader enough to relieve weight from walking beam.
3. Lubricate grease bank with Moly High Temperature/Extreme Pressure Grease.



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.

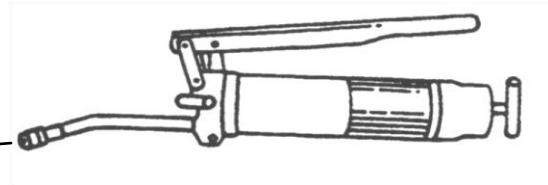
Tighten to 170 lb.-ft. in the sequence shown.



LUBRICATION & MAINTENANCE

LUBRICATE THE THREE PILLOW BLOCKS UNDER THE SPREADER THAT CARRY THE MAIN POWER SHAFT, USING CENTRAL GREASE LOCATION

Lubricate grease fitting with Moly High Temperature/Extreme Pressure Grease.



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.



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

SPECIFICATIONS

Tractor Size (Minimum)	100 hp PTO
Weight Spreader, Base model with Implement tires and End Gate	9675 lb
Load Capacity	23000 lb
Volume Capacity Struck Level Heaped Load	249 cu. ft. 418 cu. ft
Beater Speed	420 rpm
Unloading Speed	0-16 ft/min Infinitely Variable
Driveline	Shielded 1000 rpm
Attachments	Control For Fender or ROPS Open Center Valve With Control Endgate

Specifications and design subject to change without notice)



PARTS MANUAL

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

Phone: 800-326-9763
Fax: 570-523-8175
www.pikrite.com

HR 400
Manure Spreader

DIRECTION ARROW

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.

BOX ENCLOSED ILLUSTRATIONS

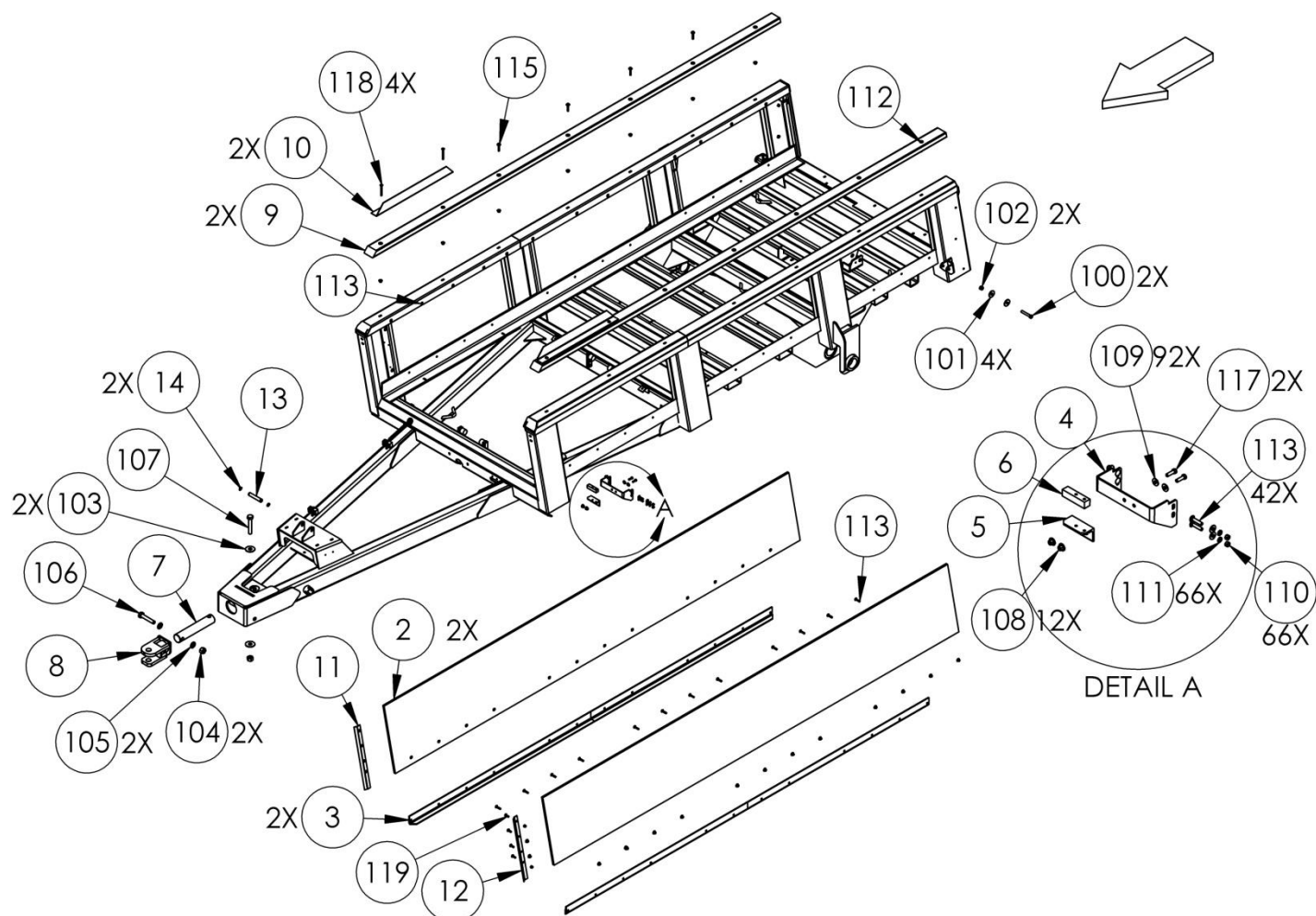
A REFERENCE NUMBER, SHOWN IN THE PARTS LIST, IS ASSIGNED TO A BOX ENCOMPASSING ALL PARTS SOLD AS A SERVICE ASSEMBLY.

REFERENCE NUMBER IDENTIFICATION

000-099	PARTS USED FOR ASSEMBLY
100-199	BOLTS & FASTENERS
800-899	REPLACEMENT PARTS OR SERVICE ASSEMBLIES – USED TO REPLACE OR REBUILD COMPONENTS OF THE MACHINE

7015-1-01

Main Frame & Side Panels

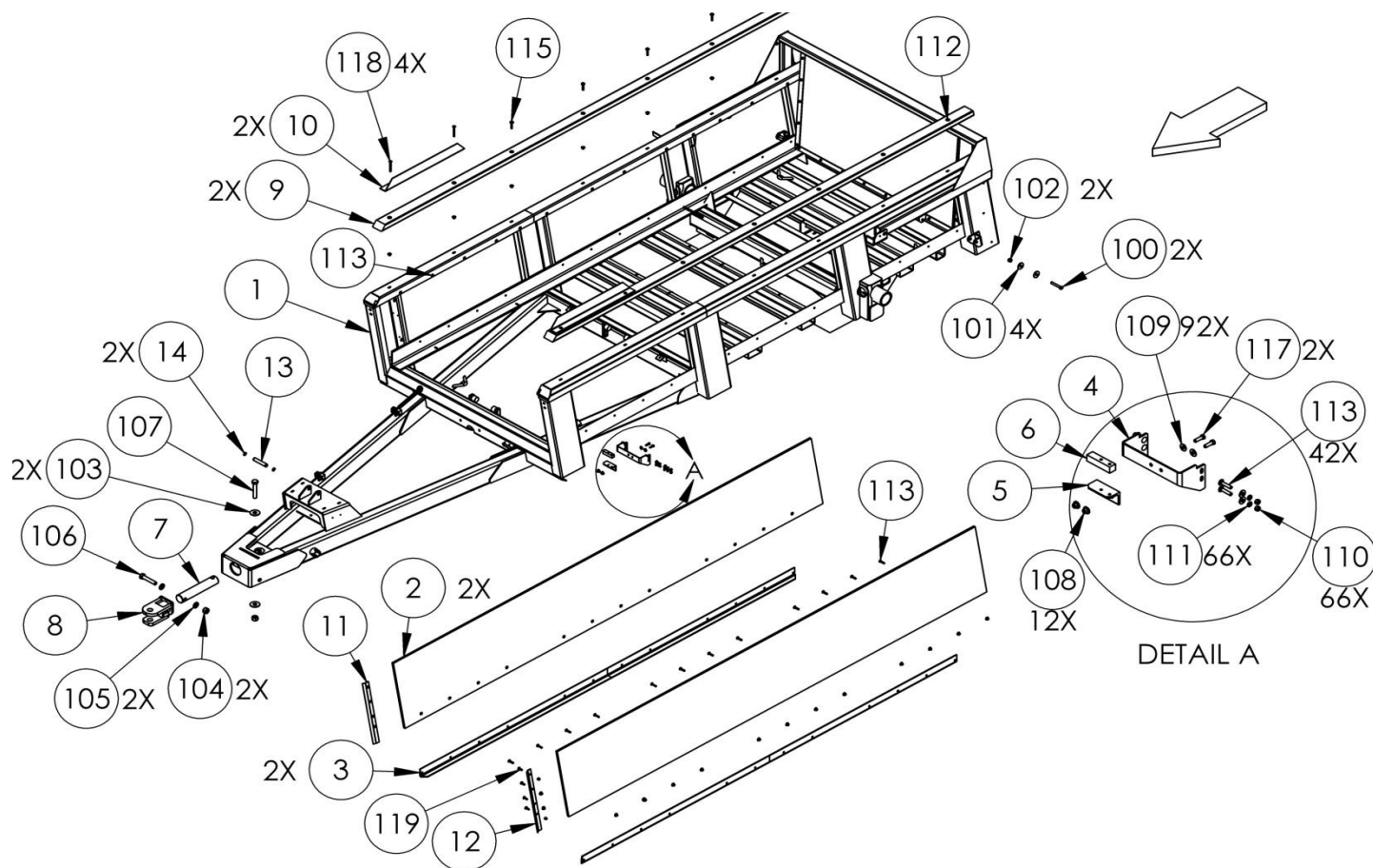


ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	MAIN FRAME	PR70057
2	2	PANELAM, SIDES	PR70063
3	2	ANGLE, SLIDING FLOOR	PR70065
4	1	BRACKET, FLOOR CYL. SUPPORT	PR70091
5	1	ANGLE, FLOOR CYL. SUPP.	PR70092
6	1	PLASTIC, FLOOR CYL. SUPP.	PR32639
7	1	HITCH SHAFT, HARDENED	PR63101
8	1	HITCH	PR70097
9	2	BUMPER, TOP RAIL	PR70394
10	2	SPLASH GUARD	PR70098
11	1	EDGE COVER, PANELAM, RH	PR70137
12	1	EDGE COVER, PANELAM, LH	PR70138
13	1	CYLINDER PIN	PR30289
14	2	RETAINING RING	PR58806
100	2	5/8-11 X 4 BOLT HH G5 ZC	BL-10-400H
101	4	5/8 FW G8	BL-10-FW-8
102	2	5/8-11 HEX LN NE ZC	BL-10-LN

ITEM NO.	QTY	DESCRIPTION	PART NUMBER
103	2	1 FW G8	BL-16-FW-8
104	2	1-8 H LN ZC G8	BL-16-LN-8
105	2	1 SAE FW	BL-16-SW
106	1	1 X 5-1/2 HH C/S G8 ZC	BL-16-550-H8
107	1	1 X 6 HH C/S G8 ZC	BL-16-600-H8
108	12	3/8-16 FIN H LN NE A563 GA ZC	BL-6-LN
109	92	3/8 USS FW ZC	BL-6-FW
110	66	3/8-16 HEX NUT ZC	BL-6-N
111	66	3/8 SPLIT LW ZC	BL-6-LW
112	5	3/8-16 X 3-1/2 HEX CAP G5 ZC	BL-6-350-H
113	42	3/8-16 X 1-3/4 CARRIAGE BOLT G5 ZC	BL-6-175-C
114	12	3/8-16 X 2 CARRIAGE BOLT G5 ZC	BL-6-200-C
115	5	3/8-16 X 2-1/2 HH C/S G5 ZC	BL-6-250-H
116	2	3/8-16 X 3 CARRIAGE BOLT G5 ZC	BL-6-300-C
117	2	3/8-16 X 1-1/4 HHCS G5 ZC	BL-6-125-H
118	2	3/8-16 X 4 CARRIAGE BOLT G5 ZC	BL-6-400-C
119	8	3/8-16 X 1-1/4 CARRIAGE BOLT G5 ZC	BL-6-125-C

7015-1-01A

Opt. Main Frame, Single Wheel



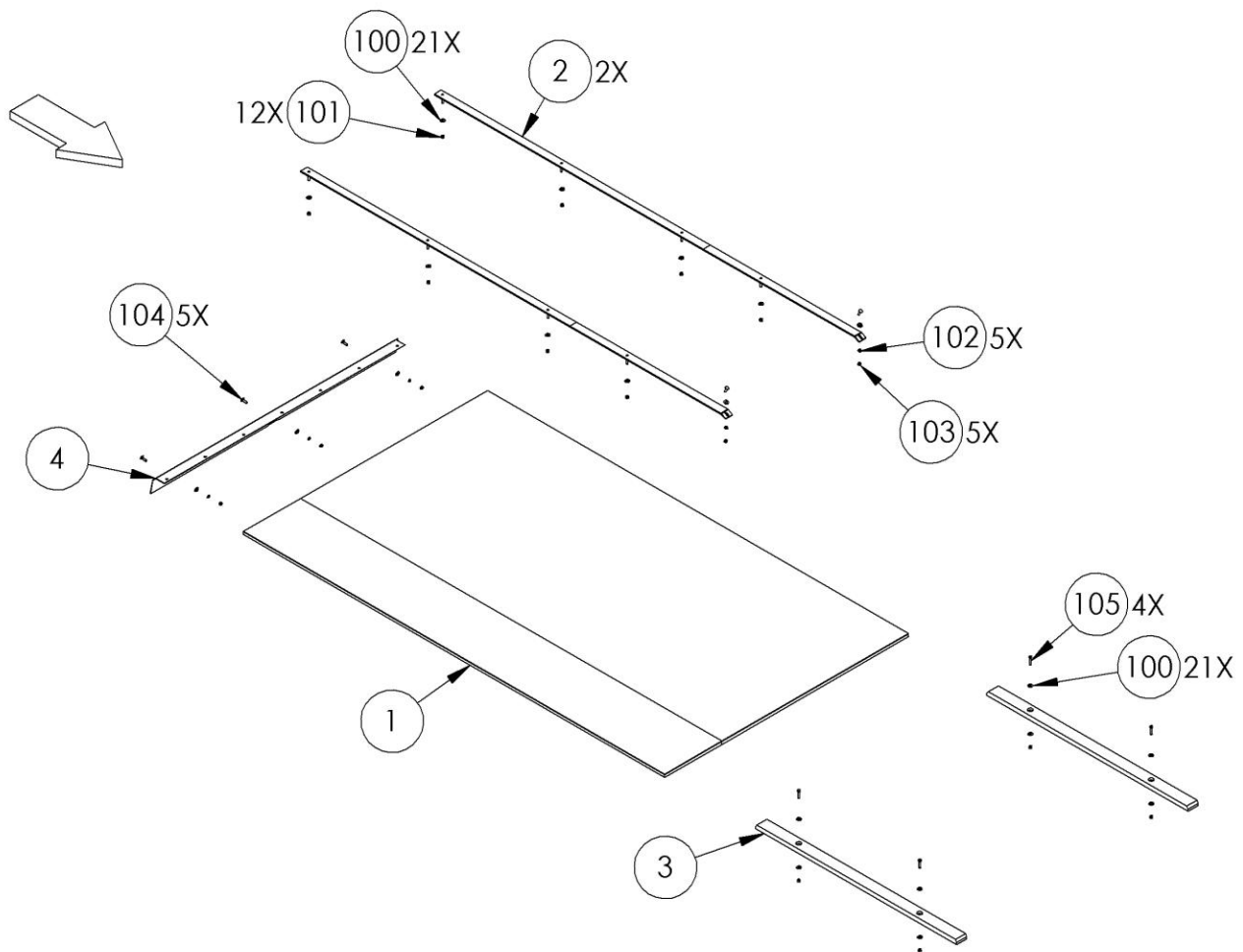
BOM Table

ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	MAIN FRAME	PR70300
2	2	PANELAM, SIDES	PR70063
3	2	ANGLE, SLIDING FLOOR	PR70065
4	1	BRACKET, FLOOR CYL. SUPPORT	PR70091
5	1	ANGLE, FLOOR CYL. SUPP.	PR70092
6	1	PLASTIC, FLOOR CYL. SUPP.	PR32639
7	1	HITCH SHAFT, HARDENED	PR63101
8	1	HITCH	PR70097
9	2	BUMPER, TOP RAIL	PR70394
10	2	SPLASH GUARD	PR70098
11	1	EDGE COVER, PANELAM, RH	PR70137
12	1	EDGE COVER, PANELAM, LH	PR70138
13	1	CYLINDER PIN	PR30289
14	2	RETAINING RING	PR58806
100	2	5/8-11 X 4 BOLT HH G5 ZC	BL-10-400H
101	4	5/8 FW G8	BL-10-FW-8
102	2	5/8-11 HEX LN NE ZC	BL-10-LN

BOM Table

ITEM NO.	QTY	DESCRIPTION	PART NUMBER
103	2	1 FW G8	BL-16-FW-8
104	2	1-8 H LN ZC G8	BL-16-LN-8
105	2	1 SAE FW	BL-16-SW
106	1	1 X 5-1/2 HH C/S G8 ZC	BL-16-550-H8
107	1	1 X 6 HH C/S G8 ZC	BL-16-600-H8
108	12	3/8-16 FIN H LN NE A563 GA ZC	BL-6-LN
109	92	3/8 USS FW ZC	BL-6-FW
110	66	3/8-16 HEX NUT ZC	BL-6-N
111	66	3/8 SPLIT LW ZC	BL-6-LW
112	5	3/8-16 X 3-1/2 HEX CAP G5 ZC	BL-6-350-H
113	42	3/8-16 X 1-3/4 CARRIAGE BOLT G5 ZC	BL-6-175-C
114	12	3/8-16 X 2 CARRIAGE BOLT G5 ZC	BL-6-200-C
115	5	3/8-16 X 2-1/2 HH C/S G5 ZC	BL-6-250-H
116	2	3/8-16 X 3 CARRIAGE BOLT G5 ZC	BL-6-300-C
117	2	3/8-16 X 1-1/4 HHCS G5 ZC	BL-6-125-H
118	2	3/8-16 X 4 CARRIAGE BOLT G5 ZC	BL-6-400-C
119	8	3/8-16 X 1-1/4 CARRIAGE BOLT G5 ZC	BL-6-125-C

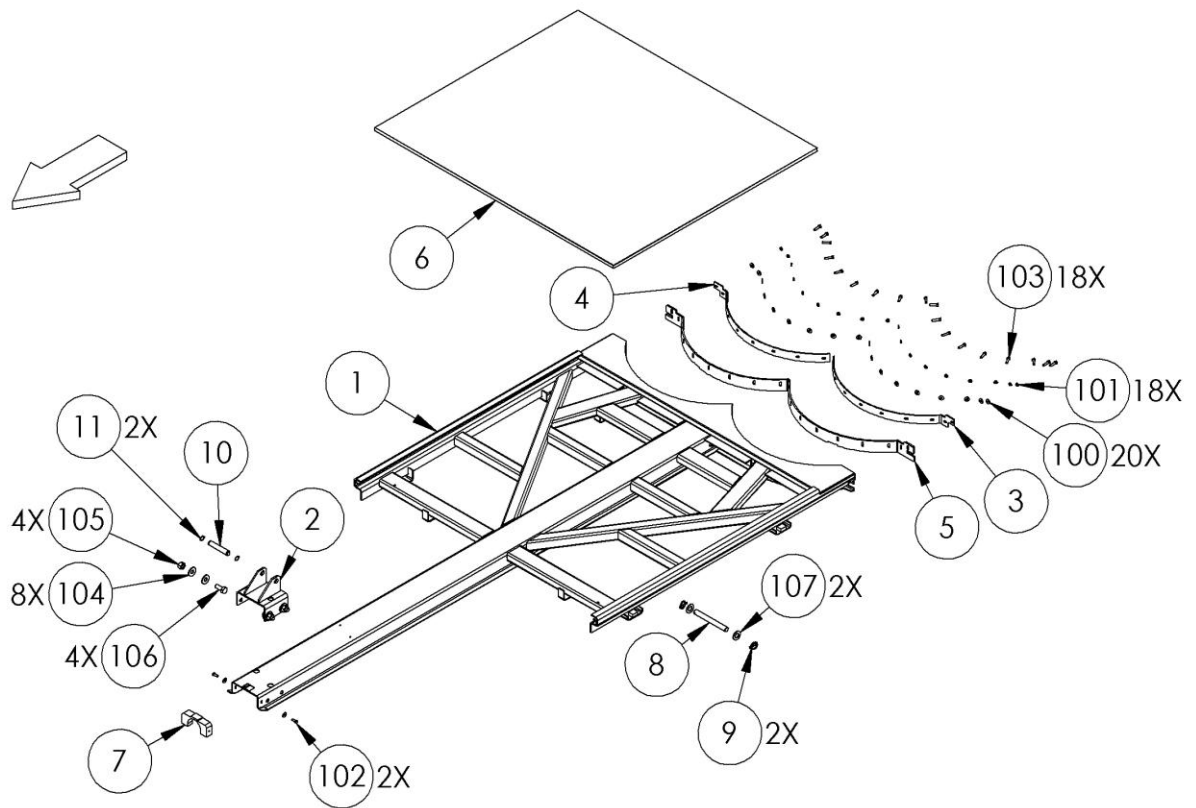
Main Floor & Sliding Floor Guides



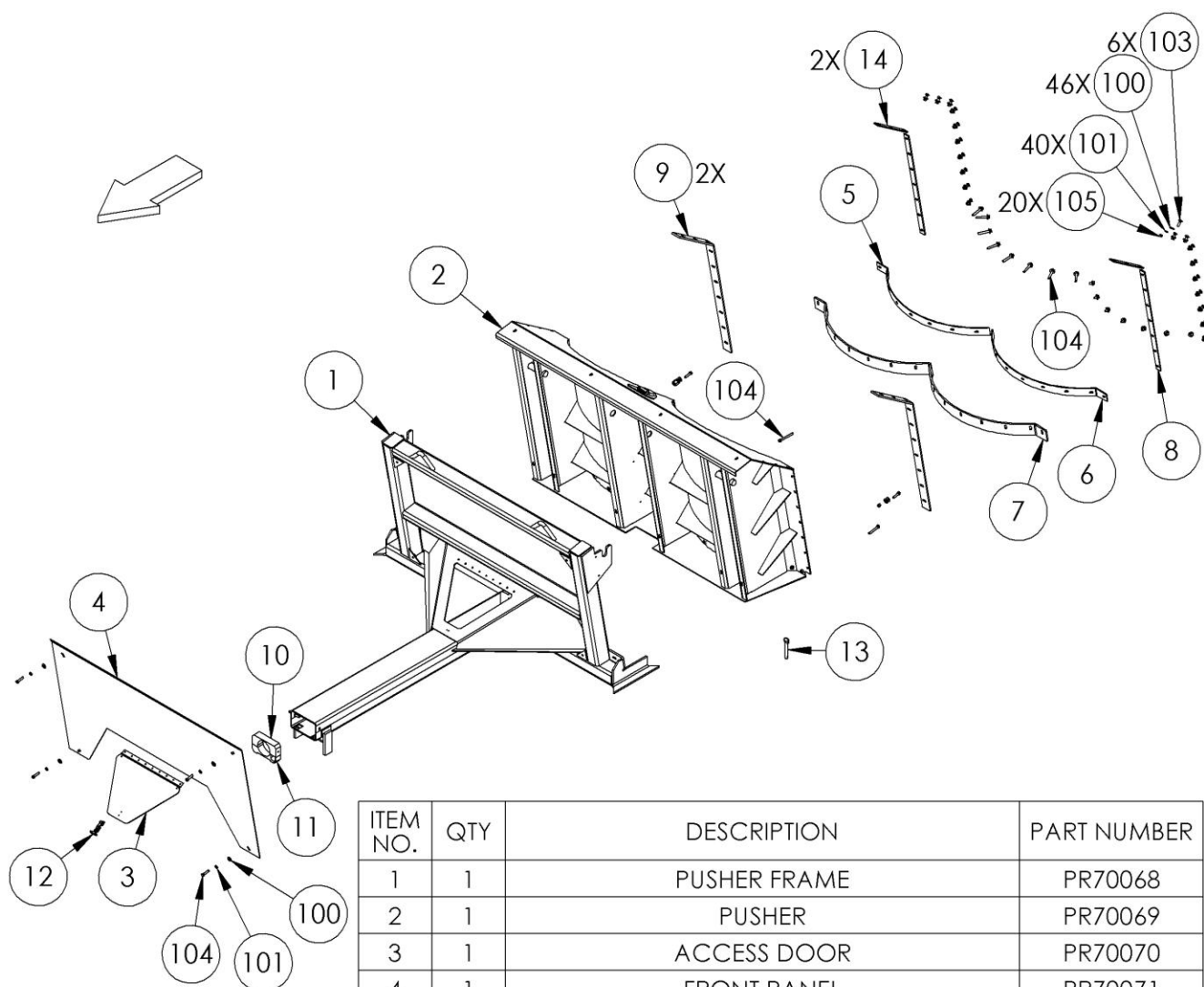
ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	PANELAM FLOOR	PR33279
2	2	2" FLOOR STRAP	PR70061
3	2	WOOD SLIDES	PR33358
4	1	REAR EDGE PLATE	PR70062
100	21	3/8 USS FW ZC	BL-6-FW
101	12	3/8 UNC FIN H LN NE A563 GRA ZC	BL-6-LN
102	5	3/8 SPLIT LW ZC	BL-6-LW
103	5	3/8-16 HEX NUTS ZC	BL-6-N
104	5	3/8 UNC X 1-1/4 CARRIAGE BOLT GR5 ZINC	BL-6-125-C
105	4	3/8-16 X 1-3/4 HHCS G5 ZC	BL-6-175-H

7015-1-03

Sliding Floor



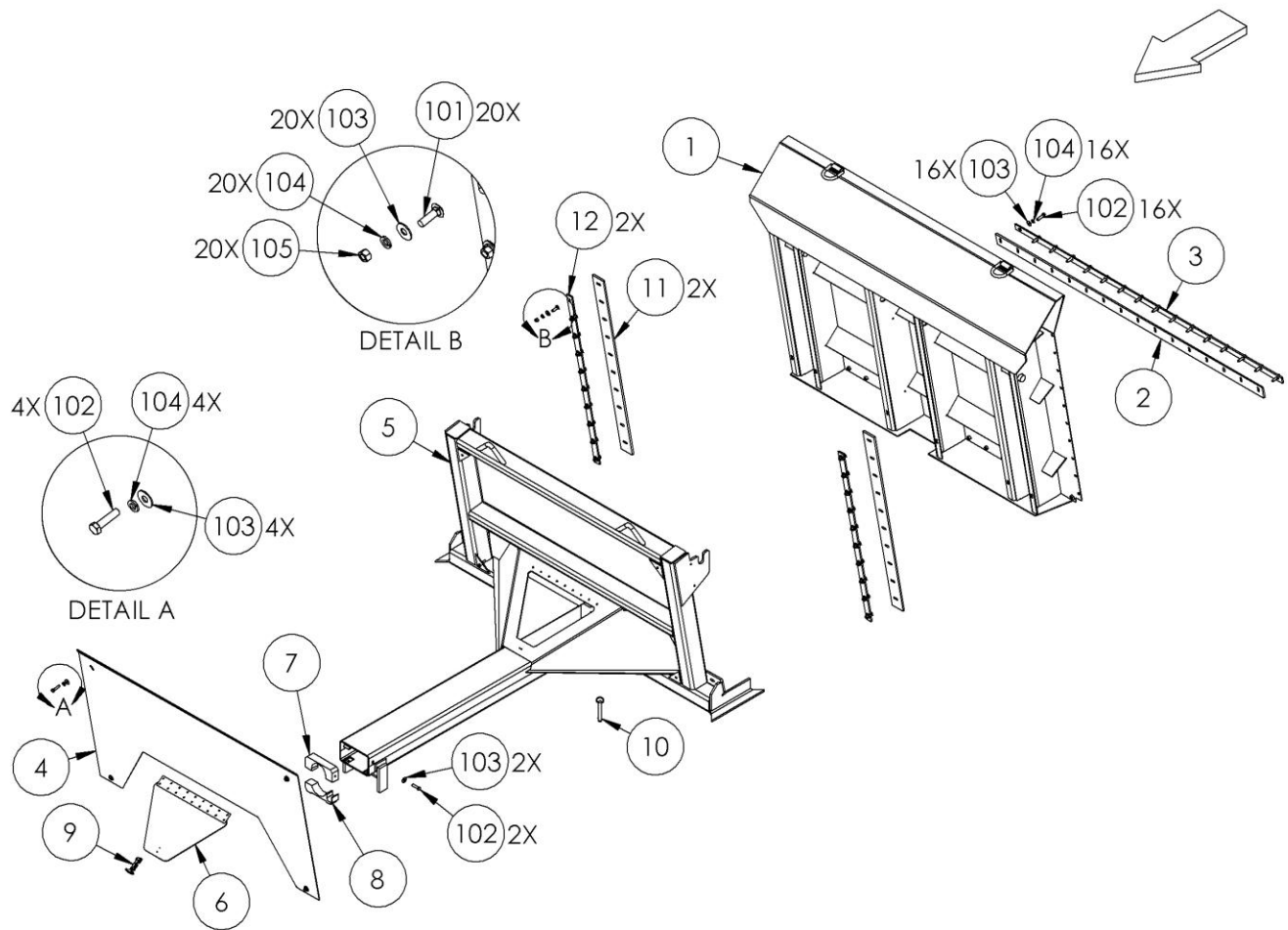
ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	SLIDING FLOOR	PR70058
2	1	SUPPORT	PR23219
3	1	BELTING BAR, LH	PR70066-LH
4	1	BELTING BAR, RH	PR70066-RH
5	1	BELTING	PR70067
6	1	FLOOR PANEL	PR44533
7	1	PLASTIC GUIDE, FLOOR CYL.	PR70123
8	1	1" X 8" PIN, SS	PR70126
9	2	1/4" LYNCH PIN	PIN-250L
10	1	CYLINDER PIN	PR30289
11	2	RETAINING RING	PR58806
100	20	3/8 USS FW ZC	BL-6-FW
101	18	3/8 SPLIT LW ZC	BL-6-LW
102	2	3/8-16 X 1 HHCS BOLT G5 ZC	BL-6-100-H
103	18	3/8-16 X 1-1/2 HEX CAP G5 ZC	BL-6-150-H
104	8	3/4 FW G8	BL-12-FW-8
105	4	3/4-10 LN w/ NYLON INSERTS G8	BL-12-LN-8
106	4	3/4-16 x 2", HH C/S G8 ZC	BL-12-200-8
107	2	1 SAE FW	BL-16-SW



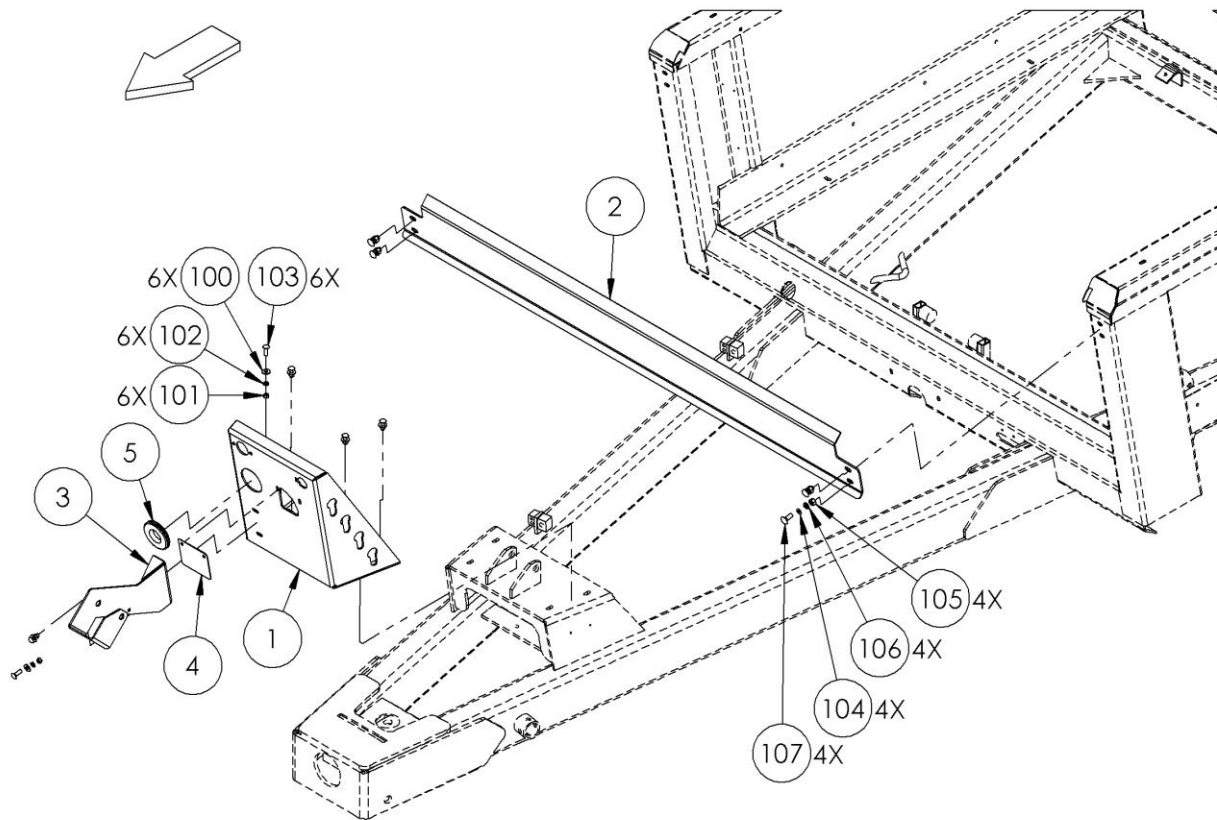
ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	PUSHER FRAME	PR70068
2	1	PUSHER	PR70069
3	1	ACCESS DOOR	PR70070
4	1	FRONT PANEL	PR70071
5	1	BACKING BAR, RH	PR70072-RH
6	1	BACKING BAR, LH	PR70072-LH
7	1	BELTING	PR70073
8	2	SIDE BACKING BAR	PR70074
9	2	SIDE BELTING	PR70075
10	1	CYL. GUIDE, TOP	PR70124
11	1	CYL. GUIDE, BOTTOM	PR70125
12	1	T-LATCH	LA-1530
13	1	5/8" QUICK RELEASE PIN, SS	PIN-10-300
14	2	SIDE BACKING BAR	PR70117
100	46	3/8 USS FW ZC	BL-6-FW
101	40	3/8 SPLIT LW ZC	BL-6-LW
102	14	3/8 UNC X 1-1/4 CARRIAGE BOLT, SS	BL-6-125-CSS
103	6	3/8 UNC X 1-1/4 CARRIAGE BOLT GR5 ZC	BL-6-125-C
104	25	3/8-16 X 1-1/2 HEX CAP SS	BL-6-150-SS
105	22	3/8-16 HEX NUTS ZC	BL-6-N

7015-1-04A

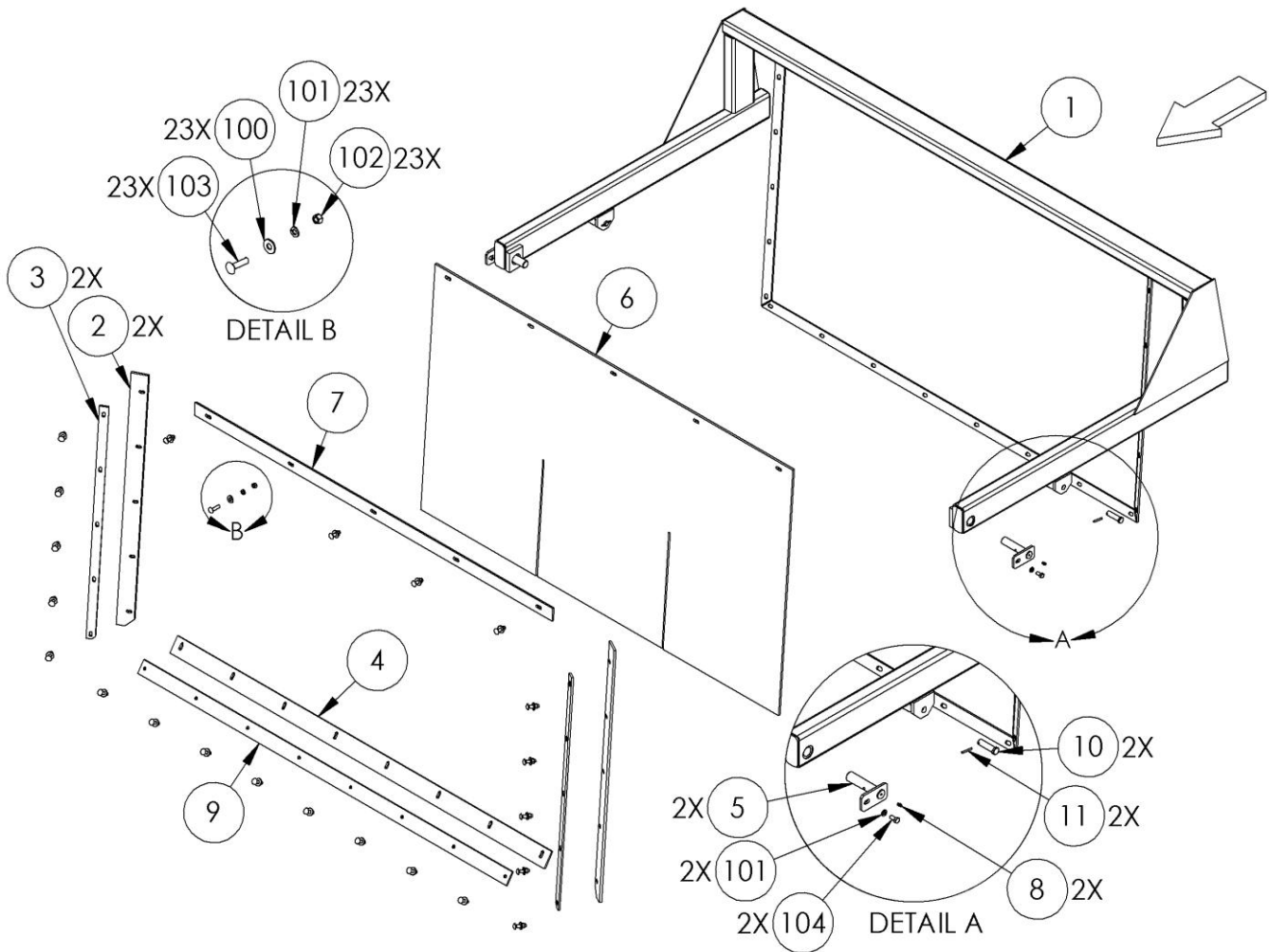
Opt. Compost Pusher



ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	PUSHER, COMPOST BEATERS	PR70206
2	1	BLEITNING, PUSHER BOT, COMPOST	PR70207
3	1	BAR, PUSHER BOTT, COMPOST	PR70208
4	1	FRONT PANEL	PR70071
5	1	PUSHER FRAME	PR70068
6	1	ACCESS DOOR	PR70070
7	1	CYL. GUIDE, TOP	PR70124
8	1	CYL. GUIDE, BOTTOM	PR70125
9	1	T-LATCH	LA-1530
10	1	5/8" QUICK RELEASE PIN, SS	PIN-10-300
11	2	SIDE BELTING	PR70251
12	2	BELT BACKING BAR	PR70250
101	20	3/8-16 X 1-1/4 CARRIAGE BOLT G5 ZC	BL-6-125-C
102	22	3/8-16 X 1-1/2 HEX CAP SS	BL-6-150-SS
103	42	3/8 USS FW ZC	BL-6-FW
104	40	3/8 SPLIT LW ZC	BL-6-LW
105	20	3/8-16 HEX NUT ZC	BL-6-N



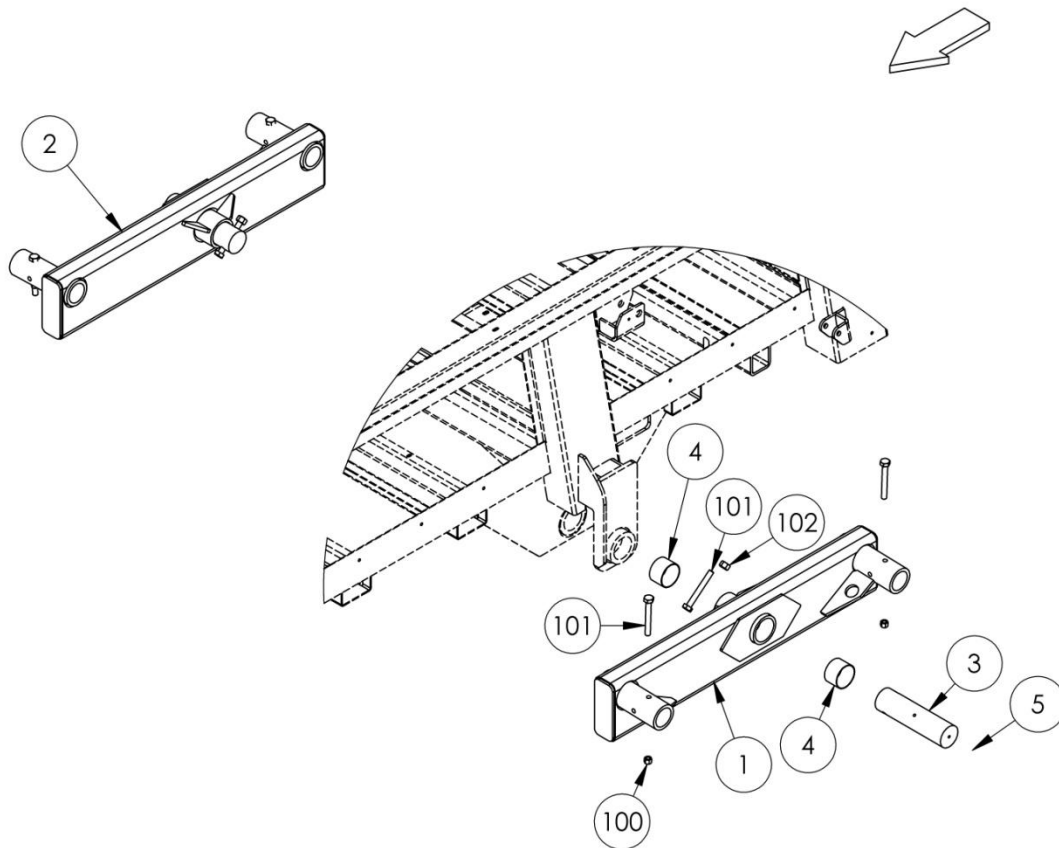
ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	HOSE MOUNT	PR70086
2	1	FRONT UPPER PANEL	PR70088
3	1	PTO HOLDER	PR70087
4	1	COVER PLATE, FLOW CONTROL CUTOUT	PR70131
5	1	3.5" GROMMET	EL-0041
6	1	PIN 1/2 X 5-3/4 w/LANYARD & HAIRPIN CLIP	PIN-500-575
100	6	3/8 USS FW ZC	BL-6-FW
101	6	3/8-16 HEX NUTS ZC	BL-6-N
102	6	3/8 SPLIT LW ZC	BL-6-LW
103	6	3/8 UNC X 1-1/4 CARRIAGE BOLT GR5 ZC	BL-6-125-C
104	4	1/2 USS FW ZC	BL-8-FW
105	4	1/2-13 HEX FIN NUTS ZC	BL-8-N
106	4	1/2 SPLIT LW ZC	BL-8-LW
107	4	1/2-13 X 1-1/4 HEX CAP G5 ZC	BL-8-125-H



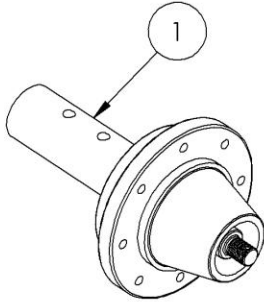
ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	ENDGATE WELDMENT	PR70076
2	2	BELTING, SIDE	PR70077
3	2	BACKING BAR, SIDE	PR70078
4	1	BELTING, BOTTOM	PR70119
5	2	HINGE PIN	PR70118
6	1	ENDGATE BELTING	PR70113
7	1	BACKING BAR, TOP	PR70115
8	2	1/4" X 28 GREASE FITTING	GF-1428
9	1	BACKING BAR, ENDGATE BELTING	PR39063
10	2	CLEVIS PIN	PIN-10-40
11	2	SPRING ROLL PIN	PIN-0014
100	23	3/8 USS FW ZC	BL-6-FW
101	25	3/8 SPLIT LW ZC	BL-6-LW
102	23	3/8-16 HEX NUTS ZC	BL-6-N
103	23	3/8 UNC X 1-1/2 CARRIAGE BOLT GR5 ZC	BL-6-150-C
104	2	3/8-16 X 3/4 HHCS G5 ZC	BL-6-075-H

7015-1-07

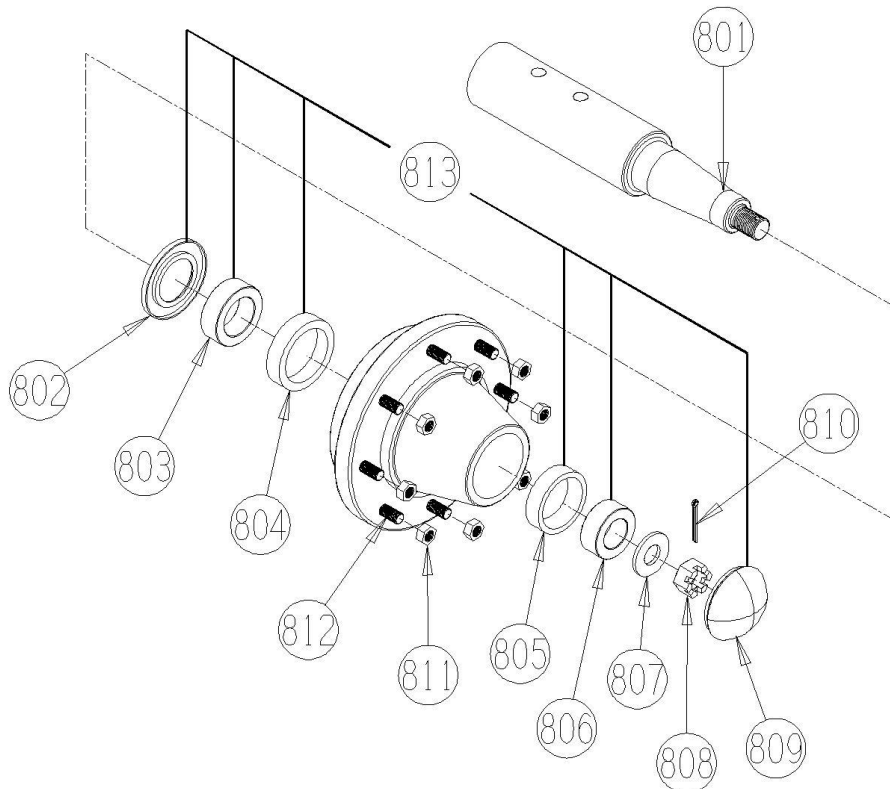
Walking Beam



ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	ROCKER, LH	PR70079
2	1	ROCKER, RH	PR70080
3	2	ROCKER SHAFT	PR70368
4	4	BRONZE BUSHING	PR34413
5	2	GREASE FITTING 1/8NPT	GF-1827
100	4	5/8-11 HEX LN NE ZC	BL-10-LN
101	6	3/4-10 x 6, HH C/S G8 ZC	BL-12-600-8
102	2	3/4-10 LN w/ NYLON INSERTS G8	BL-12-LN-8

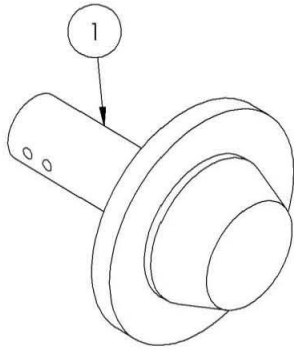


ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	4	HUB ASSEMBLY	WHL-3000
801	4	SPINDLE 3" x 16"	WHL-3001
802	4	SEAL	WHL-3000G
803	4	INNER CONE	WHL-3000C
804	4	INNER CUP	WHL-3000A
805	4	OUTER CUP	WHL-3000B
806	4	OUTER CONE	WHL-3000D
807	4	SPINDLE WASHER	WHL-3000K
808	4	SPINDLE NUT	WHL-3000J
809	4	HUB CAP	WHL-3000H
810	4	COTTER PIN 3/16 x 2"	PIN-C3-16-32
811	32	LUG NUT	WHL-3000F
812	32	STUD BOLT	WHL-3000E
813	4	WHEEL BEARING KIT	WHL-3000K

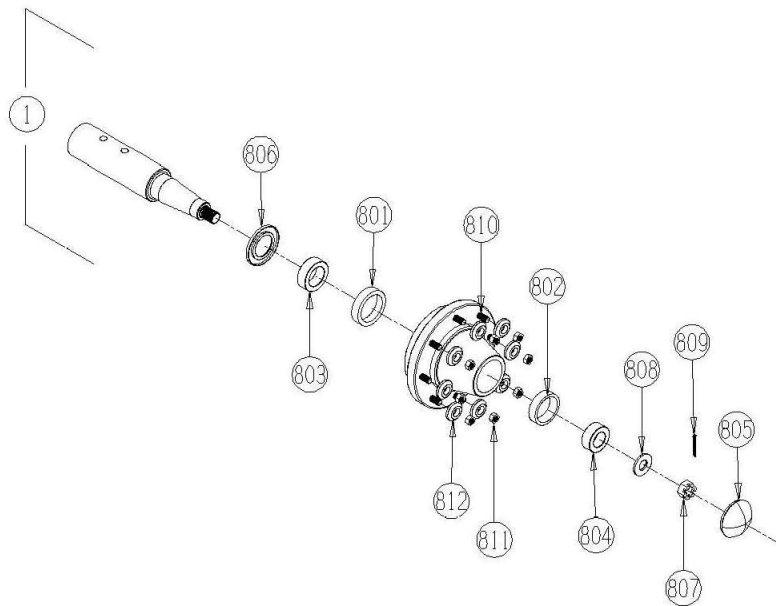


7015-1-08A

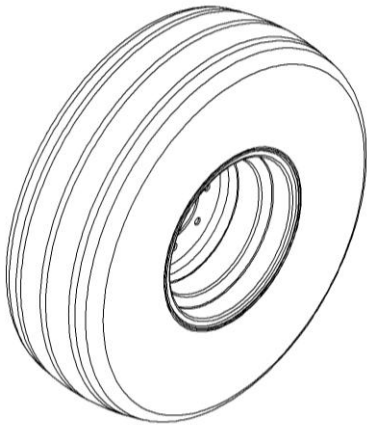
Opt. Hubs & Spindles, Single Wheel



ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	4	HUB & SPINDLE ASSY, 10 BOLT	WHL-1210
800	1	WHEEL BEARING KIT	WBR-1210K
801	1	INNER CUP	WHL-1210A
802	1	OUTER CUP	WHL-1210B
803	1	INNER CONE	WHL-1210C
804	1	OUTER CONE	WHL-1210D
805	1	DUST CAP	WHL-1210E
806	1	GREASE SEAL	WHL-1210F
807	1	FLANGE NUT, SPINDLE	WHL-1210G
808	1	WASHER, SPINDLE	WHL-1210H
809	1	COTTER PIN, SPINDLE	WHL-1210I
810	8	WHEEL STUD BOLT	WHL-1210J
811	8	WHEEL STUD NUT	WHL-1210K
812	8	WHEEL STUD WASHER	WHL-1210L
815	1	SPINDLE	WHL-1210M

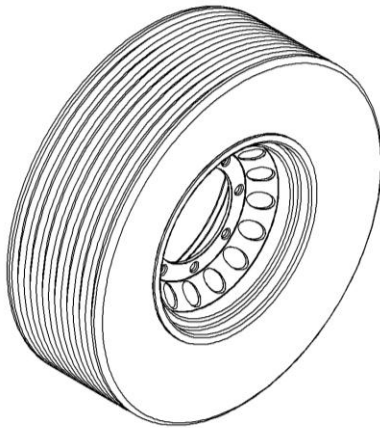


7015-1-09 Tires & Wheels, 16.5-16.1 Implement



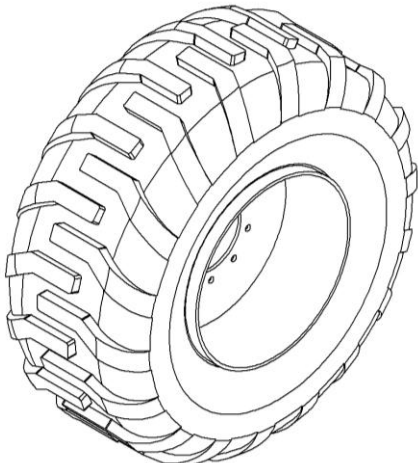
ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	4	Tire and Wheel Assembly	WHM-1514
801	4	16 X 14 WHEEL 8-8-6	WHL-1614
802	4	16.5 X 16.1 IMPLEMENT TIRE	WHT-1614

7015-1-09A Opt. Tires & Wheels, 11R-22.5 Truck Tires



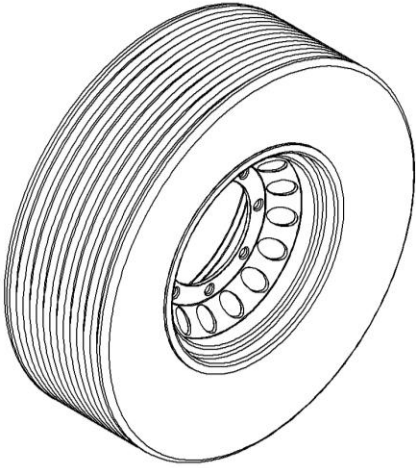
ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	4	11.00 X 22.5 TIRE & WHEEL ASSEMBLY	WHM-7107
801	4	22.5 X 8.25 WHEEL - 8-8-6 - 3/8" POSITIVE OFFSET	WHL-7107
802	4	11-22.5 IMPLEMENT TIRE	WHT-7107

7015-1-09B Opt. Tires & Wheels, 500/50-22.5 Tires



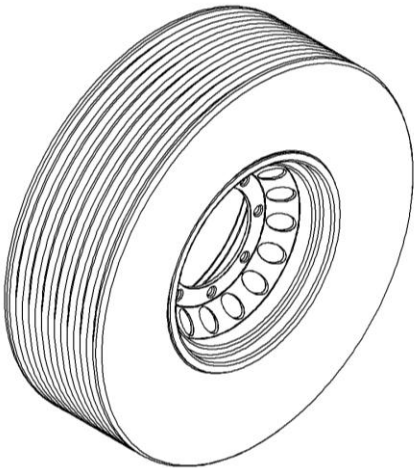
ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	4	500/50-22.5 TIRE & WHEEL ASSY	WHM-7111
801	4	WHEEL, 22.5 X 16 6mm	WHL-7111
802	4	TIRE, 500/50-22.5	WHT-7111

7015-1-09C Opt. Tires & Wheels, 385/65R22.5 Truck Tires



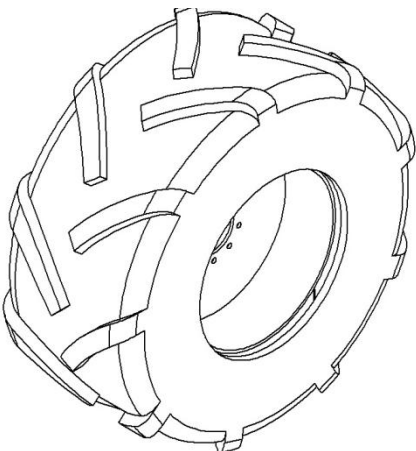
ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	4	385/65R22.5 TIRE & WHEEL ASSY	WHM-7106
801	4	22.5 X 11.75 WHEEL	WHL-7106
802	4	385/65R22.5 TRUCK TIRE	WHT-7106

7015-1-09D Opt. Tires & Wheels, 425/65R22.5 Truck



ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	4	425/65R22.5 TIRE & WHEEL ASSY	WHM-7109
801	4	425/65R22.5 TRUCK TIRE	WHT-7105
802	4	22.5 X 11.75 WHEEL	WHL-7106

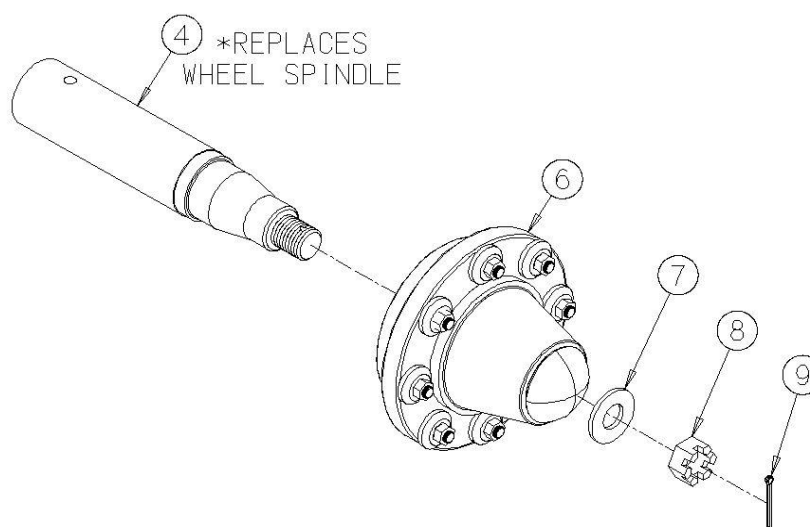
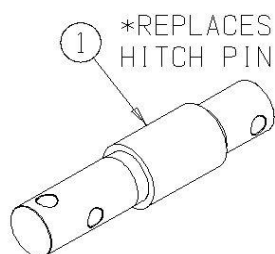
7015-1-09E Opt. Tires & Wheels, 380/90R46-14.9



ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	2	WHEEL & TIRE ASSY, 380/90R46-14.9	WHM-7115
813	2	WHEEL, 14.9 X 46, 10 BOLT	WHL-7112
814	2	TIRE, 380/90R46	WHT-7113

7015-1-10

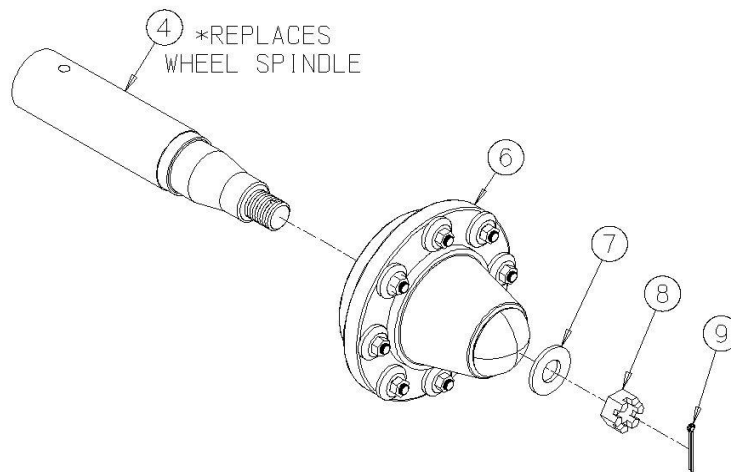
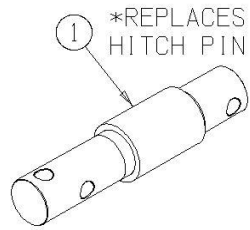
Opt. Weight Scale System, NT460



ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	CELL	SWS-4605-002
2	1	INDICATOR MOUNT, NT460 BRACKET - SCR-#10X5/8 FHSTS BLACK ZP	SWS-403780
3	1	INDICATOR MOUNT, NT460 BRACKET-EZ3 PLASTIC RAIL	SWS-404353
4	4	LOAD CELL	SWS-4609-001
5	1	INICADOT, W/AUTOLOG, NT 460	SWS-4604-003
6	4	COMPLETE HUB, w/o SPINDLE	WHL-3000-HC
7	4	WASHER	WHL-3000K
8	4	FLANGE NUT	WHL-3000J
9	4	COTTER PIN	PIN-C3-16-32
10	1	RAIL MOUNT, MONITOR MOUNT	SWS-4604-006
11	1	J-BOX 6 PT	SWS-4605-003
12	1	J BOX CABLE, 9m	SWS-4605-004
13	1	POWER CABLE, 4-WIRE, 3m CABLE	SWS-4605-005
800	0	WEIGHT SYSTEM, NT460	SWS-4610

7015-1-10A

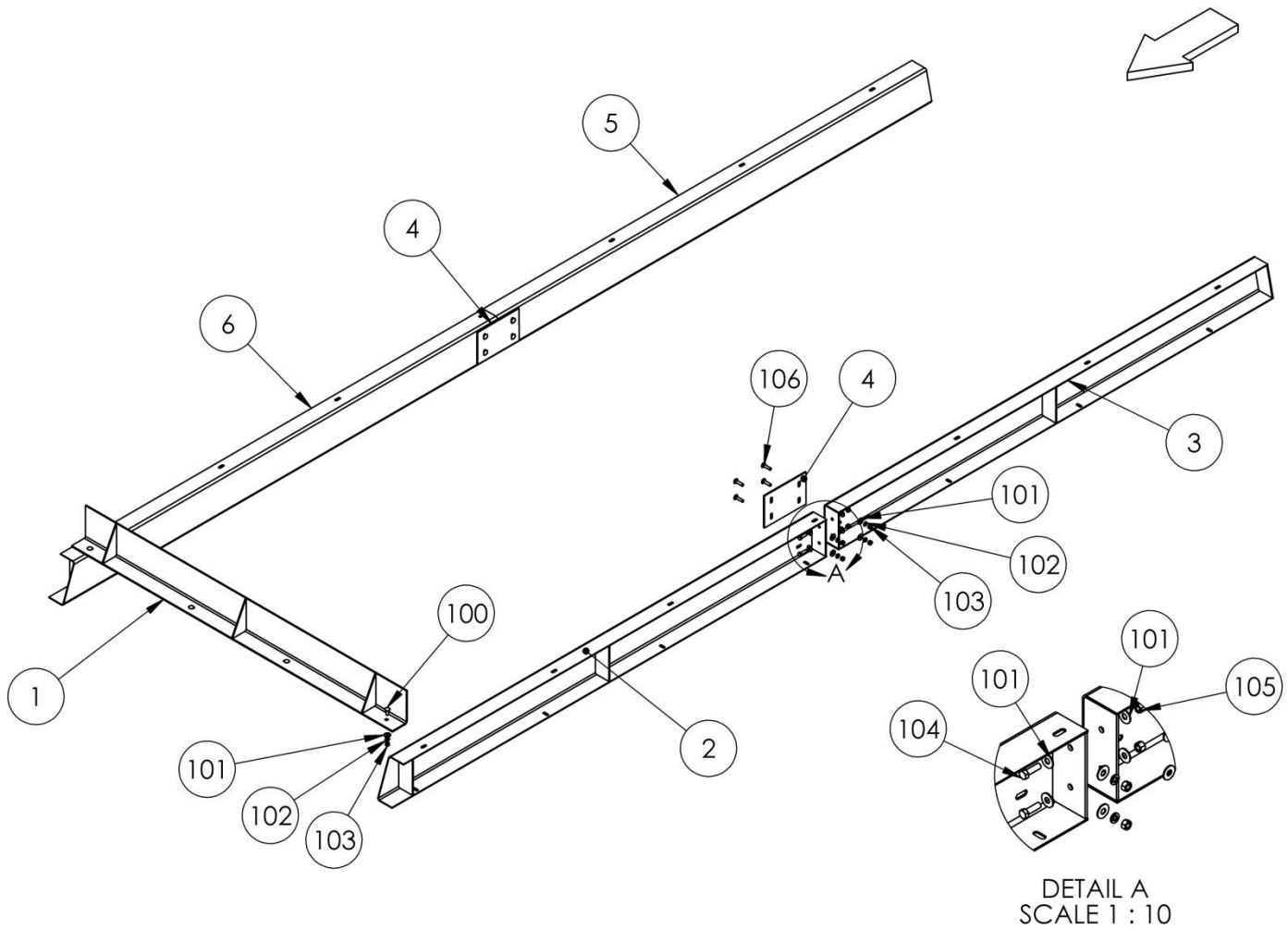
Opt. Weight Scale System, GT400



ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	CELL	SWS-4605-002
2	1	J-BOX 6 PT	SWS-4605-003
3	1	J BOX CABLE, 9m	SWS-4605-004
4	4	LOAD CELL	SWS-4609-001
5	1	POWER CABLE, 4-WIRE, 3m CABLE	SWS-4605-005
6	4	COMPLETE HUB, w/o SPINDLE	WHL-3000-HC
7	4	WASHER	WHL-3000K
8	4	FLANGE NUT	WHL-3000J
9	4	COTTER PIN	PIN-C3-16-32
10	1	INDICATOR, GT400	SWS-4605-006
11	1	INDICATOR MOUNT, GT400, BRACKET-STR TOP MOUNT	SWS-403769
12	1	INDICATOR MOUNT, GT400, BRACKET-ROBO MOUNTING	SWS-403980
800	0	WEIGHT SYSTEM, GT400	SWS-4609

7015-1-11

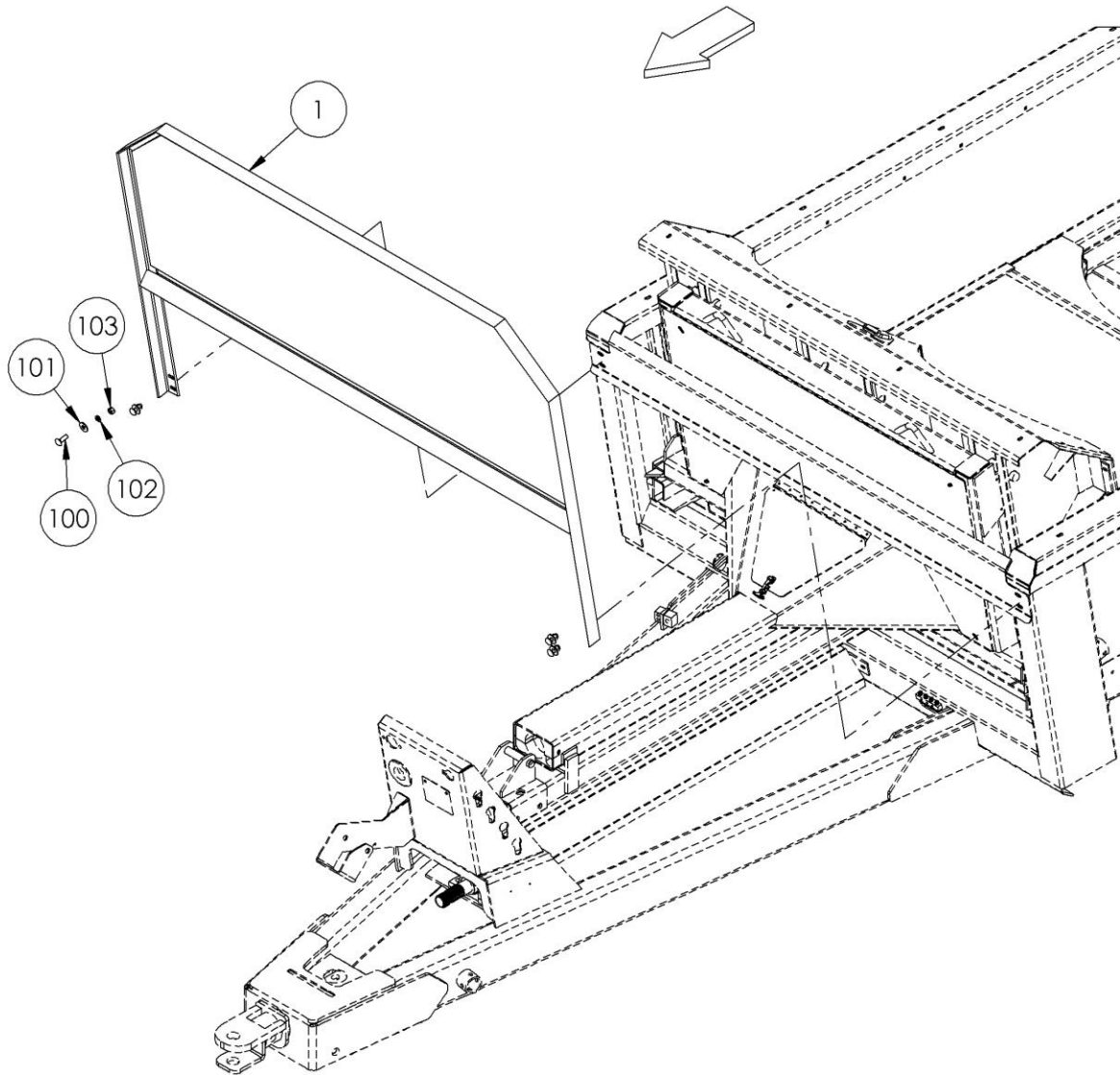
Opt. Side Extensions



ITEM NO.	QTY.	DESCRIPTION	PART NUMBER
1	1	PUSHER EXTENSION	PR70136
2	1	SIDE EXTENSION, LH FRONT	PR70403
3	1	SIDE EXTENSION, LH REAR	PR70405
4	2	SPLICE PLATE	PR70404
5	1	SIDE EXTENSION, RH REAR	PR70406
6	1	SIDE EXTENSION, RH FRONT	PR70407
100	4	3/8-16 X 1 CARRIAGE BOLT G5 ZC	BL-6-100-C
101	20	3/8 USS FW ZC	BL-6-FW
102	12	3/8 SPLIT LW ZC	BL-6-LW
103	12	3/8-16 HEX NUT ZC	BL-6-N
104	4	3/8-16 X 1-1/4 HHCS G5 ZC	BL-6-125-H
105	4	3/8-16 FIN H LN NE A563 GA ZC	BL-6-LN
106	8	3/8-16 X 1-1/2 CARRIAGE BOLT G5 ZC	BL-6-150-C
107	14	3/8-16 X 1-1/2 HEX CAP G5 ZC	BL-6-150-H
108	28	3/8 FW, LG. OD, G8	BL-6-FW-USS8

7015-1-12

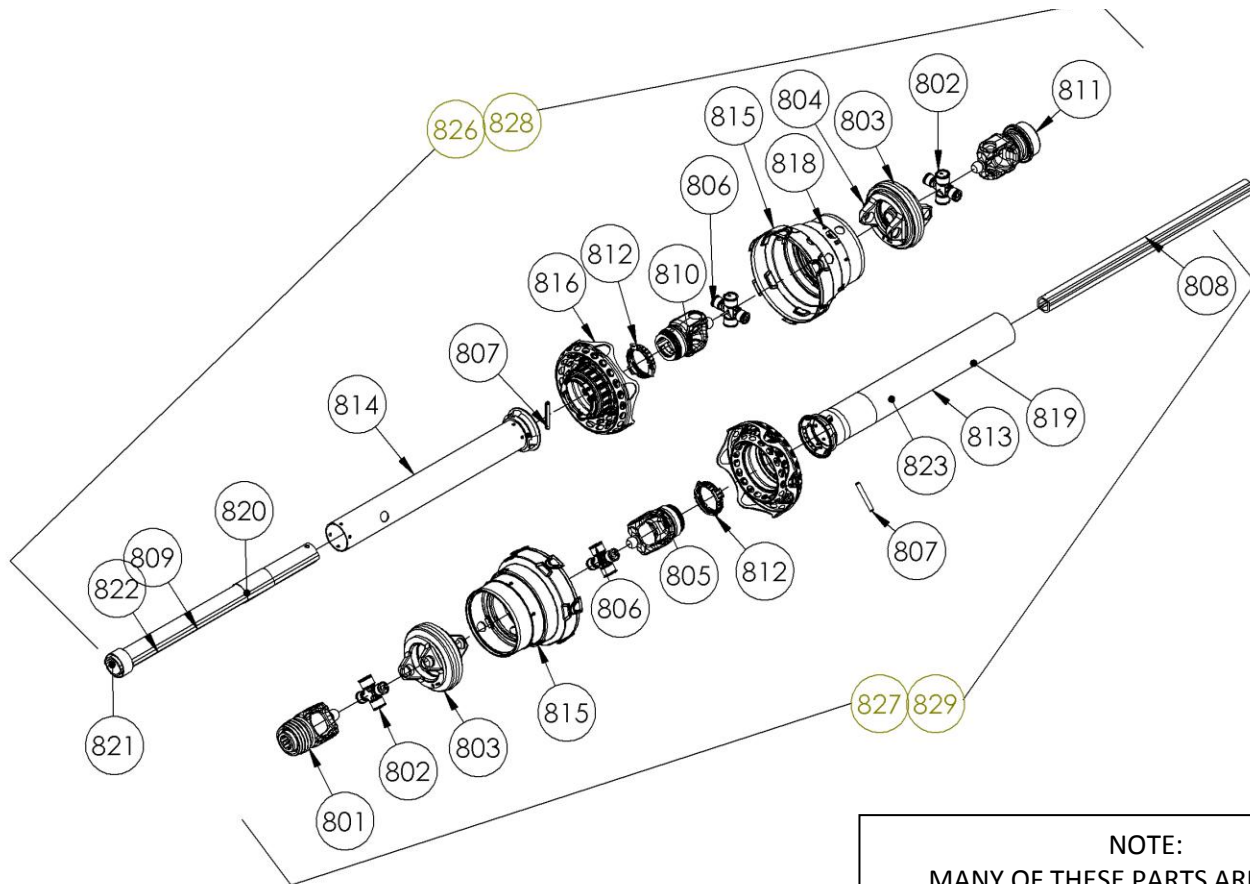
Opt. Rock Guard



ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	ROCK GUARD	PR70129
100	4	1/2 UNC X 1-1/2 CARRIAGE BOLT GR5 ZC	BL-8-150-C
101	4	1/2 SAE FW ZC	BL-8-SW
102	4	1/2 SPLIT LW ZC	BL-8-LW
103	4	1/2-13 HEX FIN NUTS ZC	BL-8-N

7015-2-01

Driveline, Front, 1000 rpm 1-3/8" CV



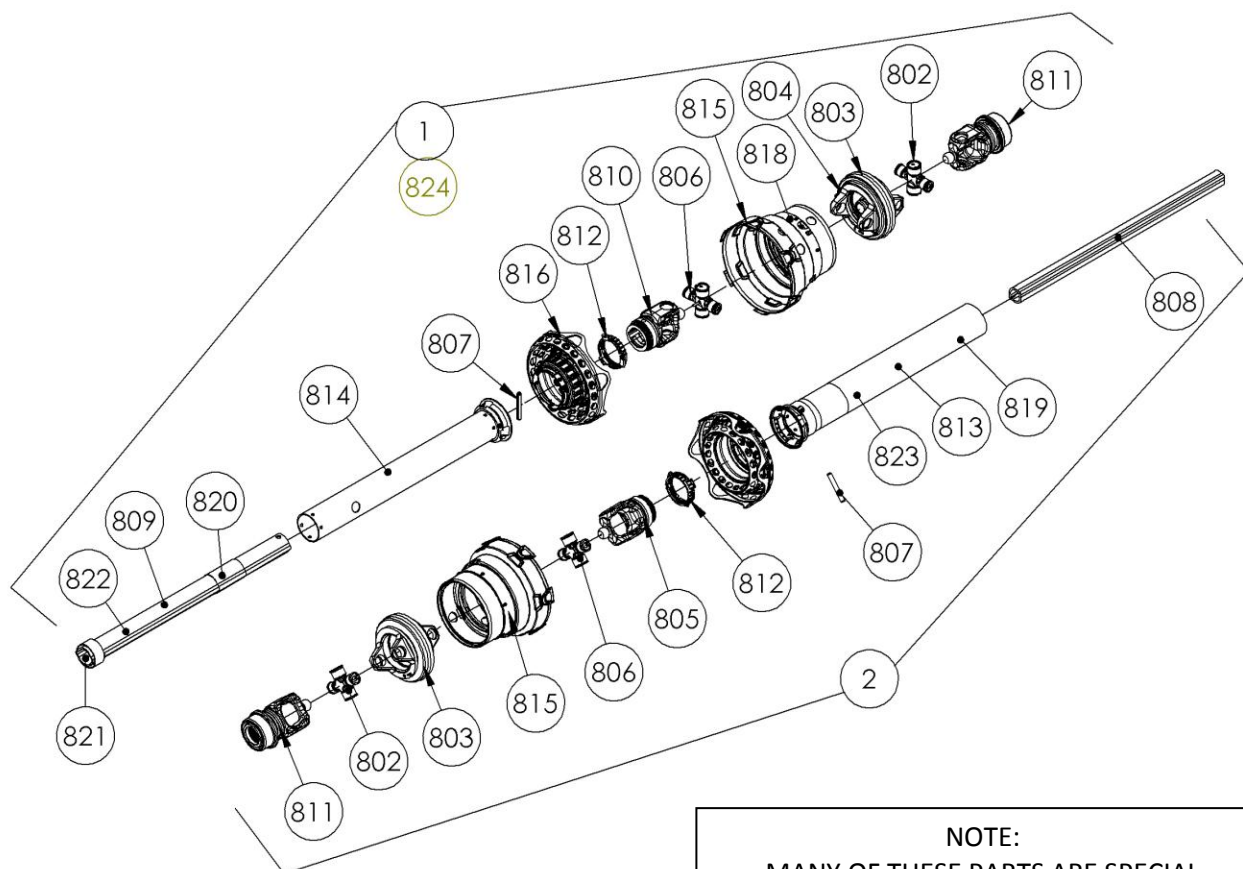
NOTE:
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ITEM NO.	QTY.	DESCRIPTION	PART NUMBER
1	1	DRIVELINE, 1-3/8-21, 2500 SERIES	PTS-1015
801	1	YOKE ASG	PTS-1012A
802	2	CROSS & BEARING KIT	PTS-1015B
803	2	DOUBLE YOKE END	PTS-3001-Y
804	2	ZERK, DOUBLE YOKE	PTS-1008C
805	1	INBOARD YOKE S4	PTS-1015C
806	2	CROSS & BEARING KIT	PTS-1015D
807	2	SPRING PIN 10 X 75	PTS-1014C
808	1	INNER PROFILE S4LGA	PTS-1015E
809	1	OUTER PROFILE S5GL	PTS-1015F
810	1	INBOARD YOKE S5	PTS-1015G
811	1	YOKE ASG	PTS-1015H
812	2	PTO SHIELD BEARING RING	PTS-1002J
813	1	GUARD TUBE OUTER	PTS-1015J
814	1	GUARD TUBE INNER	PTS-1015K

ITEM NO.	QTY.	DESCRIPTION	PART NUMBER
815	2	CV GUARD & BEARING ASSY	PTS-1015L
816	2	FLEX NET & GUARD ASSY	PTS-1015M
817	1	PTO SHIELD SAFETY CHAIN	PTS-1002K
818	14	SCREW	PTS-1010K
819	1	DECAL, OUTER	PTS-1010L
820	1	DECAL, INNER	PTS-1010M
821	1	SUPPORT BEARING	PTS-1021H
822	1	ZERK	PTB-1014L
823	1	LUBRICATION DECAL	PTS-1021P
824	0	AS COLLAR KIT	PTS-8100E
825	0	ASG COLLAR KIT	PTS-1008R
826	1	DRIVELINE, FRONT HALF	PTS-1015FH
827	1	DRIVELINE, REAR HALF	PTS-1015RH
828	1	SHIELD COMPLETE, FRONT HALF	PTS-1015FS
829	1	SHIELD COMPLETE, REAR HALF	PTS-1015RS

7015-2-01A

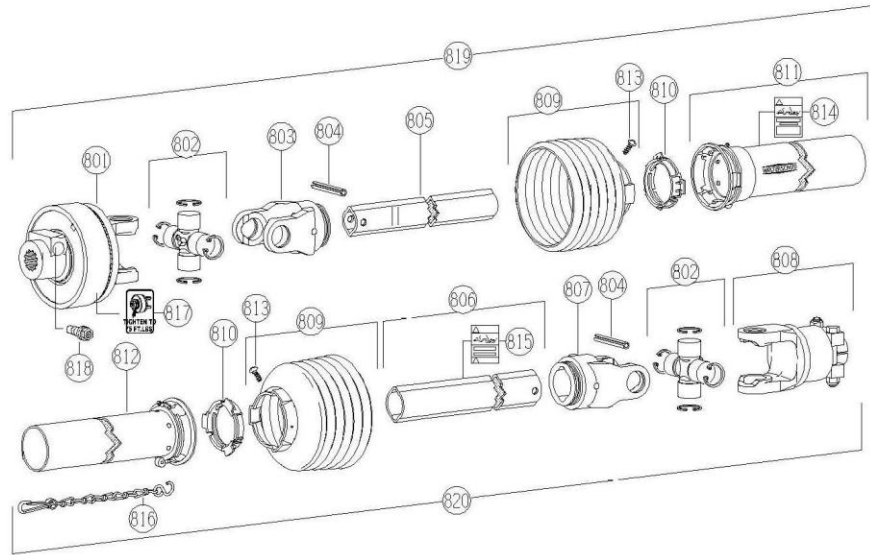
Driveline, Front, 1000 rpm 1-3/4"



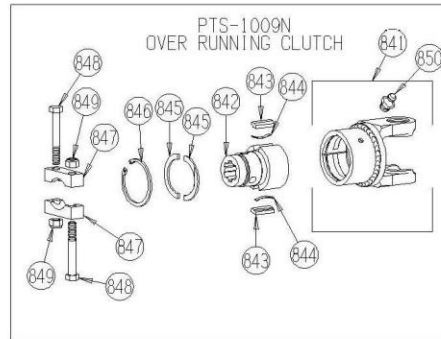
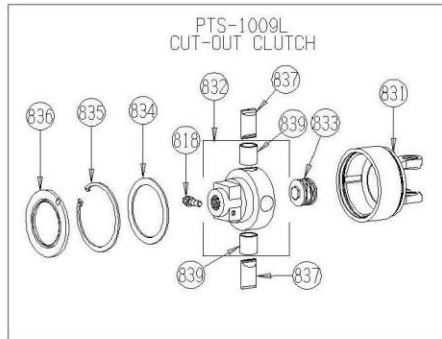
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ITEM NO	QTY	DESCRIPTION	PART NUMBER
1	1	DRIVELINE, FRONT HALF	PTS-1016FH
2	1	DRIVELINE, REAR HALF	PTS-1015RH
802	2	CROSS & BEARING KIT	PTS-1015B
803	2	DOUBLE YOKE END	PTS-3001-Y
804	2	ZERK, DOUBLE YOKE	PTS-1008C
805	1	INBOARD YOKE S4	PTS-1015C
806	2	CROSS & BEARING KIT	PTS-1015D
807	2	SPRING PIN 10 X 75	PTS-1014C
808	1	INNER PROFILE S4LGA	PTS-1016A
809	1	OUTER PROFILE	PTS-1016B
810	1	INBOARD YOKE S5	PTS-1015G
811	2	YOKE ASG	PTS-1015H
812	2	PTO SHIELD BEARING RING	PTS-1002J

ITEM NO	QTY	DESCRIPTION	PART NUMBER
813	1	GUARD TUBE OUTER	PTS-1016C
814	1	GUARD TUBE INNER	PTS-1016D
815	2	CV GUARD & BEARING ASSY	PTS-1015L
816	2	FLEX NET & GUARD ASSY	PTS-1015M
817	1	PTO SHIELD SAFETY CHAIN	PTS-1002K
818	18	SCREW	PTS-1010K
819	1	DECAL, OUTER	PTS-1010L
820	1	DECAL, INNER	PTS-1010M
821	1	SUPPORT BEARING	PTS-1021H
822	1	ZERK	PTB-1014L
823	1	LUBRICATION DECAL	PTS-1008Q
824	1	SHIELD COMPLETE, FRONT HALF	PTS-1016FS

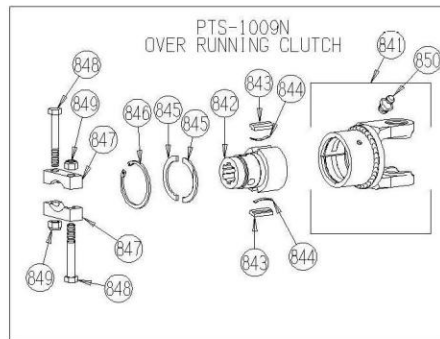
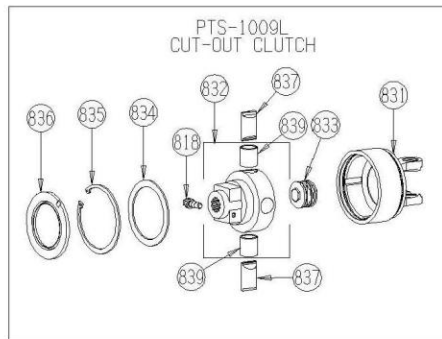
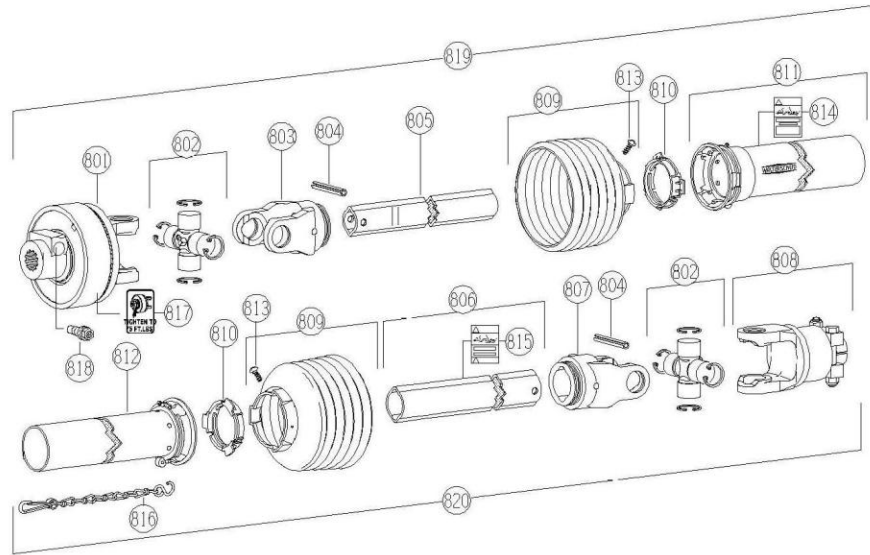


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ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	DRIVELINE FOR VERTICALS, REAR	PTS-1009
801	1	CUT-OUT CLUTCH	PTS-1009L
802	2	CROSS & BEARING KIT	PTS-1010B
803	1	INBOARD YOKE, 1b	PTS-1009B
804	2	SPRING PIN	PTS-1010C
805	1	INNER PROFILE	PTB-1014E
806	1	OUTER PROFILE	PTS-1009M
807	1	INBOARD YOKE	PTS-1010D
808	1	OVER RUNNING CLUTCH	PTS-1009N
809	2	SHIELD CONE 6 RIB	PTB-1014I
810	2	PTO SHIELD BEARING RING	PTS-1002J
811	1	GUARD TUBE OUTER	PTS-1009P
812	1	GUARD TUBE INNER	PTS-1009Q
813	2	SCREW	PTS-1010K
814	1	DECAL, OUTER	PTS-1010L
815	1	DECAL, INNER	PTS-1010M
816	1	PTO SHIELD SAFETY CHAIN	PTS-1002K
817	1	DECAL	PTS-1009J
818	1	CC LOCK ASSEMBLY	PTS-1009K

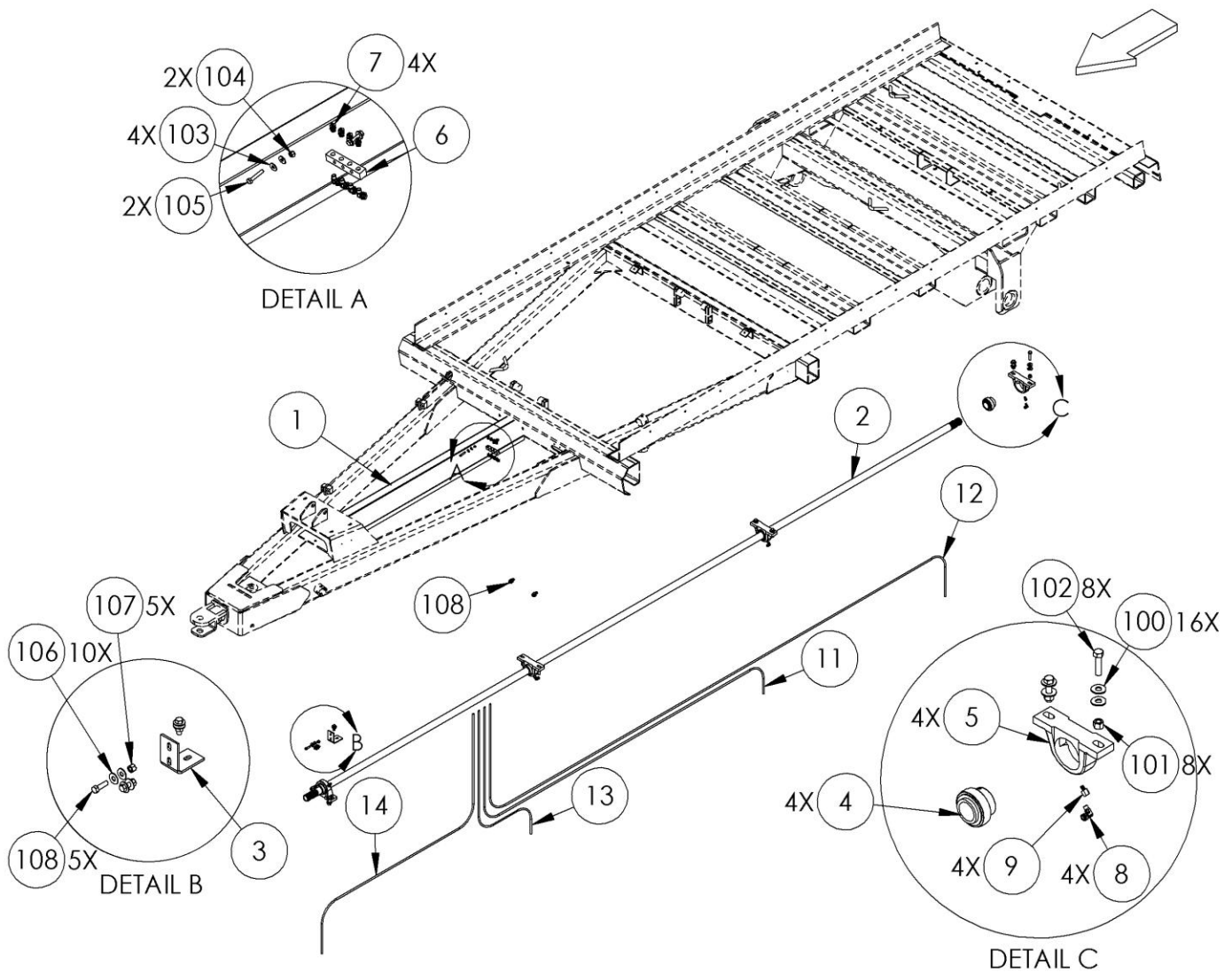
ITEM NO.	QTY	DESCRIPTION	PART NUMBER
819	1	FRONT, HALF SHAFT	PTS-1009-FH
820	1	REAR, HALF SHAFT	PTS-1009-RH
831	1	HOUSING	PTS-1009E-B
832	1	HUB 1-3/4"-20 SPL CC	PTS-1009E-C
833	1	SPRING PACK	PTS-1009E-D
834	1	WASHER	PTS-1009E-E
835	1	RETAINING RING	PTS-1009E-F
836	1	SEALING RING	PTS-1009E-G
838	2	CAM	PTS-1009E-A
839	2	BUSHING - IN PART PTS-1009E-C	PTS-1009E-H
841	1	CLUTCH HOUSING	PTS-1020A-A
842	1	HUB	PTS-1009N-A
843	2	KEY	PTS-1010F-A
844	2	LEAF SPRING	PTS-1010F-B
845	1	SUPPORTING RING	PTS-1009N-B
846	1	RETAINING RING	PTS-1010F-G
847	2	CLAMP BRIDGE	PTS-1009N-C
848	2	HEX BOLT - M16 X 110L	PTS-1009N-D
849	2	LOCKNUT - M16	PTS-1009N-E
850	1	ZERK, DOUBLE YOKE	PTS-1008C



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ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	DRIVELINE FOR COMPOST, REAR	PTS-1009-CMP
801	1	CUT-OUT CLUTCH	PTS-1009L
802	2	CROSS & BEARING KIT	PTS-1010B
803	1	INBOARD YOKE, 1b	PTS-1009B
804	2	SPRING PIN	PTS-1010C
805	1	INNER PROFILE	PTB-1014E
806	1	OUTER PROFILE	PTS-1009-CMP1
807	1	INBOARD YOKE	PTS-1010D
808	1	OVER RUNNING CLUTCH	PTS-1009N
809	2	SHIELD CONE 6 RIB	PTB-1014I
810	2	PTO SHIELD BEARING RING	PTS-1002J
811	1	GUARD TUBE OUTER	PTS-1009P
812	1	GUARD TUBE INNER	PTS-1009-CMP2
813	2	SCREW	PTS-1010K
814	1	DECAL, OUTER	PTS-1010L
815	1	DECAL, INNER	PTS-1010M
816	1	PTO SHIELD SAFETY CHAIN	PTS-1002K
817	1	DECAL	PTS-1009J
818	1	CC LOCK ASSEMBLY	PTS-1009K

ITEM NO.	QTY	DESCRIPTION	PART NUMBER
819	1	FRONT, HALF SHAFT	PTS-1009-FH
820	1	REAR, HALF SHAFT	PTS-1009-CMP-RH
831	1	HOUSING	PTS-1009E-B
832	1	HUB 1-3/4"-20 SPL CC	PTS-1009E-C
833	1	SPRING PACK	PTS-1009E-D
834	1	WASHER	PTS-1009E-E
835	1	RETAINING RING	PTS-1009E-F
836	1	SEALING RING	PTS-1009E-G
838	2	CAM	PTS-1009E-A
839	2	BUSHING - IN PART PTS-1009E-C	PTS-1009E-H
841	1	CLUTCH HOUSING	PTS-1020A-A
842	1	HUB	PTS-1009N-A
843	2	KEY	PTS-1010F-A
844	2	LEAF SPRING	PTS-1010F-B
845	1	SUPPORTING RING	PTS-1009N-B
846	1	RETAINING RING	PTS-1010F-G
847	2	CLAMP BRIDGE	PTS-1009N-C
848	2	HEX BOLT - M16 X 110L	PTS-1009N-D
849	2	LOCKNUT - M16	PTS-1009N-E
850	1	ZERK, DOUBLE YOKE	PTS-1008C



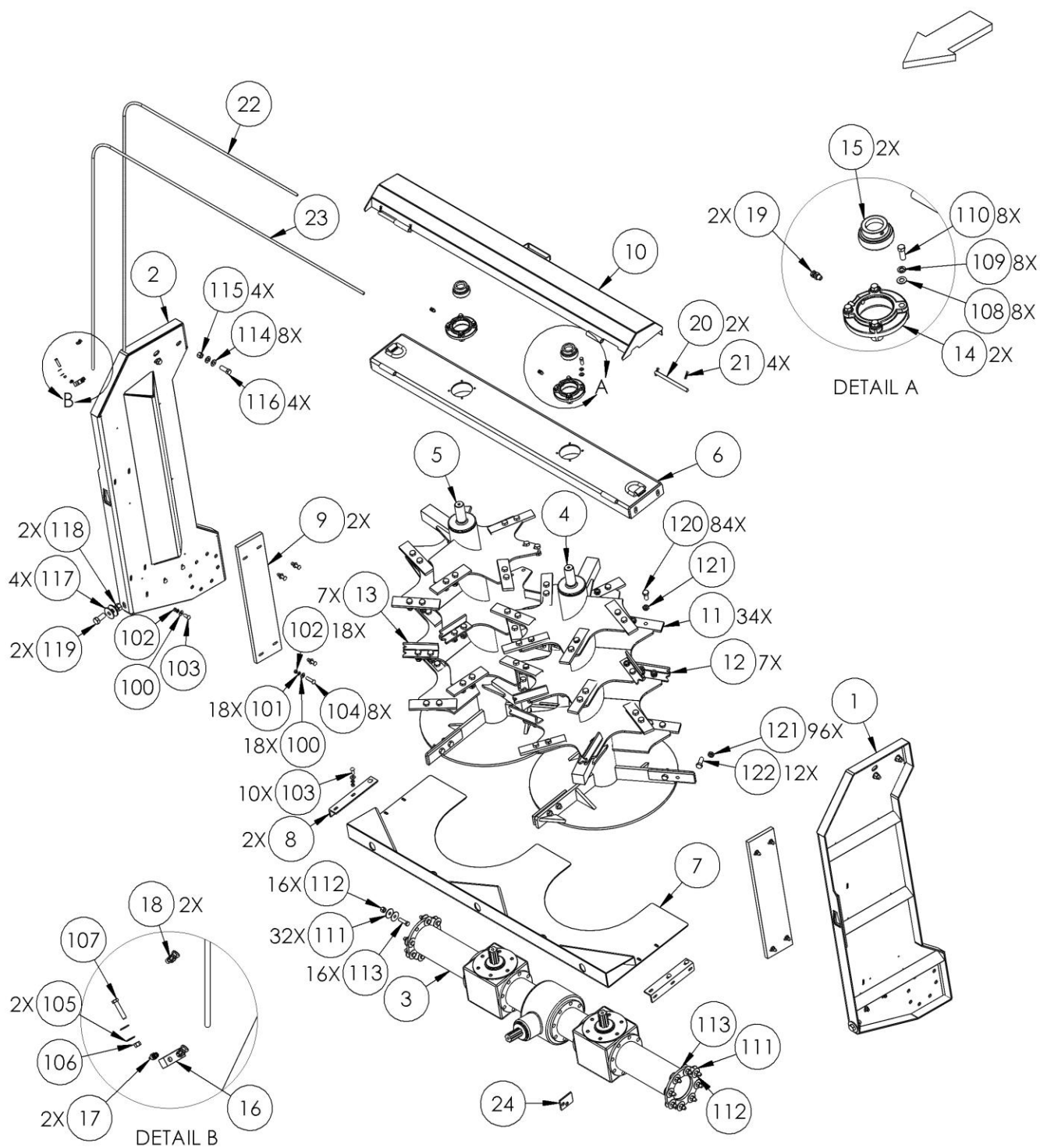
ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	DRIVE SHAFT SHIELD	PR70089
2	1	DRIVE SHAFT	PR33228
3	1	MOUNT, DRIVELINE SHIELD	PR70132
4	4	1.75" BEARING	BR-175-085-I
5	4	BEARING HOUSING	BR-085-RAK
6	1	4" GREASE MANIFOLD	GF-4-4
7	4	GREASE FITTING 1/8 NPT 45°	GF-1827-45
8	4	1/8MP X 1/8 FPX 90°	A-1501-2-2
9	4	1/4"-28 X 1/8" FNPT ADAPTER	GFA-51942
10	4	1/8 MP X 1/8 FPX 45°	A-1503-2-2
11	1	1/8" GREASE HOSE, 1/8"MP X 1/8"MP X 114"	H2-114-2MP-2MP
12	1	1/8" GREASE HOSE, 1/8"MP X 1/8"MP X 165"	H2-165-2MP-2MP

ITEM NO.	QTY	DESCRIPTION	PART NUMBER
13	1	1/8" GREASE HOSE, 1/8"MP X 1/8"MP X 20"	H2-20-2MP-2MP
14	1	1/8" GREASE HOSE, 1/8"MP X 1/8"MP X 72"	H2-72-2MP-2MP
15	4	1/8 MP x 1/8 FPX	A-1404-2-2
100	16	1/2 USS FW ZC	BL-8-FW
101	8	1/2-13 LN NYLON INSERT ZC	BL-8-LN
102	8	1/2-13 X 2 HEX CAP G5 ZC	BL-8-200-H
103	4	1/4 USS FW ZC	BL-4-FW
104	2	1/4-20 HEX LN NE ZC	BL-4-LN
105	2	1/4-20 X 1-1/2 HEX CAP G5 ZC	BL-4-150-H
106	10	3/8 USS FW ZC	BL-6-FW
107	5	3/8-16 FIN H LN NE A563 GA ZC	BL-6-LN
108	5	3/8-16 X 1-1/4 HHCS G5 ZC	BL-6-125-H

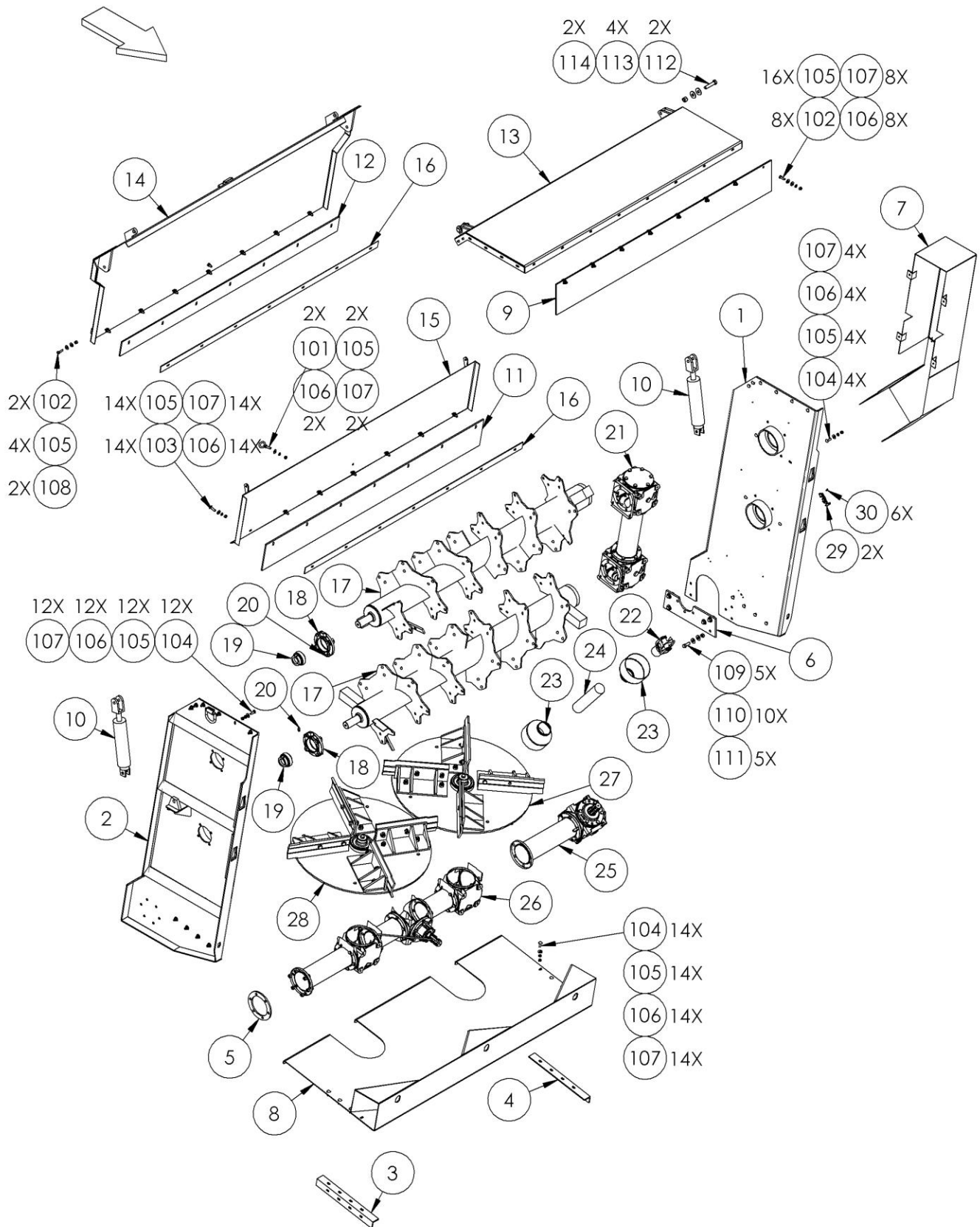
7015-2-04**Vertical Beaters w/ Gearbox**

ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	BEATER PANEL, LH	PR70081
2	1	BEATER PANEL, RH	PR70082
3	1	GEARBOX, 1000 rpm	VTB-1899-P2
4	1	BEATER, LH	VTB-0009
5	1	VERTICAL BEATER, RH	VTB-0010
6	1	BEARING MOUNT, BEATER	PR70083
7	1	BEATER PAN	PR70084
8	2	MOUNT, BEATER PAN	PR70085
9	2	BEATER PANEL PLASTIC	PR70090
10	1	COVER, BEATER BEARING	PR70096
11	34	BALANCED BEATER KNIFE	VTB-1899-F3
12	7	BEATER BLADE, LH	VTB-1899-B3
13	7	BEATER BLADE, RH	VTB-1899-C3
14	2	FLANGE BEARING HOUSING	BR-085-4PF
15	2	1.75" BEARING	BR-175-085-I
16	1	2" GREASE MANIFOLD	GF-2-2
17	2	GREASE FITTING 1/8NPT	GF-1827
18	2	1/8 MP X 1/8 FPX 45°	A-1503-2-2
19	2	1/8 MP X 1/8 FPX	A-1404-2-2
20	2	HINGE PIN	PR70133
21	4	COTTER PIN, 3/16 X 1-1/2"	PIN-C3-24
22	1	1/8" HOSE 1/8MP X 1/8MP X 36 L	H2-36-2MP-2MP
23	1	1/8" HOSE, 1/8MP X 1/8MP X 68 L	H2-68-2MP-2MP
24	1	SHIM, BOTTOM PANEL, GEARBOX	PR50502
25	11	GEAR LUBE @ QT	HP-1038
100	18	3/8 USS FW ZC	BL-6-FW
101	18	3/8 SPLIT LW ZC	BL-6-LW
102	18	3/8-16 HEX NUT ZC	BL-6-N
103	10	3/8-16 X 1-1/4 CARRIAGE BOLT G5 ZC	BL-6-125-C
104	8	3/8-16 X 2 CARRIAGE BOLT G5 ZC	BL-6-200-C
105	2	1/4 USS FW ZC	BL-4-FW
106	1	1/4-20 HEX LN NE ZC	BL-4-LN
107	1	1/4-20 X 1-1/2 HEX CAP G5 ZC	BL-4-150-H
108	8	7/16 SAE FW ZC	BL-7-SW
109	8	7/16 SPLIT LW ZC	BL-7-LW
110	8	7/16-14 X 1-1/4 HH G5 ZC	BL-7-125-HH
111	32	9/16 FW G8	BL-9-FW-8
112	16	9/16-12 LN w/ NYLON INSERT	BL-9-LN
113	16	9/16-12 X 2 HH G8	BL-9-200-H8
114	8	5/8 SAE FW ZC	BL-10-SW
115	4	5/8-11 HEX LN NE ZC	BL-10-LN
116	4	5/8-11 X 2 HEX CAP G5 ZC	BL-10-200-H
117	4	3/4 FW G8	BL-12-FW-8
118	2	3/4-10 LN w/ NYLON INSERTS G8	BL-12-LN-8
119	2	3/4-10 X 2 HH C/S G8 ZC	BL-12-200-8
120	84	5/8-11 X 1-3/4 HH G8 ZC	BL-10-175-H8
121	96	5/8-11 STOVER LN	BL-10-LNS
122	12	5/8-11 X 2 HEX CAP G8 ZC	BL-10-200-H8

ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	BEATER PANEL, LH	PR70081
2	1	BEATER PANEL, RH	PR70082
3	1	GEARBOX, 1000 rpm	VTB-1899-P2
4	1	BEATER, LH	VTB-0009
5	1	VERTICAL BEATER, RH	VTB-0010
6	1	BEARING MOUNT, BEATER	PR70083
7	1	BEATER PAN	PR70084
8	2	MOUNT, BEATER PAN	PR70085
9	2	BEATER PANEL PLASTIC	PR70090
10	1	COVER, BEATER BEARING	PR70096
11	34	BALANCED BEATER KNIFE	VTB-1899-F3
12	7	BEATER BLADE, L H	VTB-1899-B3
13	7	BEATER BLADE, R H	VTB-1899-C3
14	2	FLANGE BEARING HOUSING	BR-085-4PF
15	2	1.75" BEARING	BR-175-085-I
16	1	2" GREASE MANIFOLD	GF-2-2
17	2	GREASE FITTING 1/8NPT	GF-1827
18	2	1/8 MP X 1/8 FPX 45°	A-1503-2-2
19	2	1/8 MP X 1/8 FPX	A-1404-2-2
20	2	HINGE PIN	PR70133
21	4	COTTER PIN, 3/16 X 1-1/2"	PIN-C3-24
22	1	1/8" HOSE 1/8MP X 1/8MP X 36 L	H2-36-2MP-2MP
23	1	1/8" HOSE, 1/8MP X 1/8MP X 68 L	H2-68-2MP-2MP
24	1	SHIM, BOTTOM PANEL, GEARBOX	PR50502
25	11	GEAR LUBE @ QT	HP-1038
100	18	3/8 USS FW ZC	BL-6-FW
101	18	3/8 SPLIT LW ZC	BL-6-LW
102	18	3/8-16 HEX NUT ZC	BL-6-N
103	10	3/8-16 X 1-1/4 CARRIAGE BOLT G5 ZC	BL-6-125-C
104	8	3/8-16 X 2 CARRIAGE BOLT G5 ZC	BL-6-200-C
105	2	1/4 USS FW ZC	BL-4-FW
106	1	1/4-20 HEX LN NE ZC	BL-4-LN
107	1	1/4-20 X 1-1/2 HEX CAP G5 ZC	BL-4-150-H
108	8	7/16 SAE FW ZC	BL-7-SW
109	8	7/16 SPLIT LW ZC	BL-7-LW
110	8	7/16-14 X 1-1/4 HH G5 ZC	BL-7-125-HH
111	32	9/16 FW G8	BL-9-FW-8
112	16	9/16-12 LN w/ NYLON INSERT	BL-9-LN
113	16	9/16-12 X 2 HH G8	BL-9-200-H8
114	8	5/8 SAE FW ZC	BL-10-SW
115	4	5/8-11 HEX LN NE ZC	BL-10-LN
116	4	5/8-11 X 2 HEX CAP G5 ZC	BL-10-200-H
117	4	3/4 FW G8	BL-12-FW-8
118	2	3/4-10 LN w/ NYLON INSERTS G8	BL-12-LN-8
119	2	3/4-10 X 2 HH C/S G8 ZC	BL-12-200-8
120	84	5/8-11 X 1-3/4 HH G8 ZC	BL-10-175-H8
121	96	5/8-11 STOVER LN	BL-10-LNS
122	12	5/8-11 X 2 HEX CAP G8 ZC	BL-10-200-H8

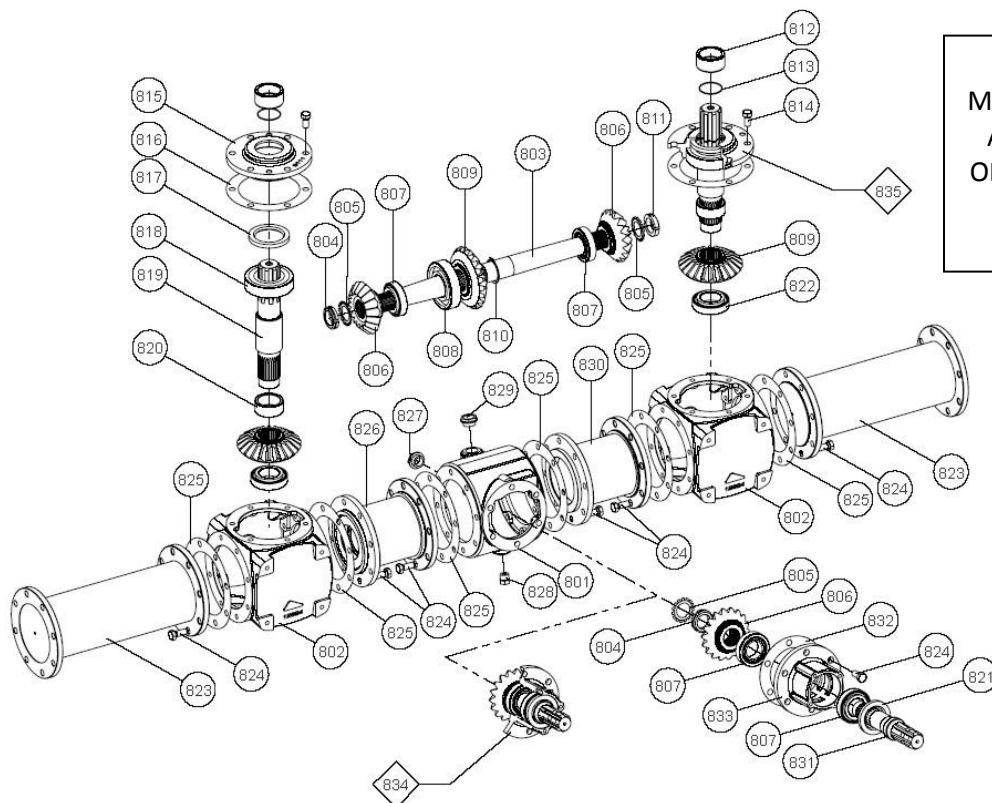


ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	BEATER PANEL, LH	PR70229
2	1	BEATER PANEL, RH	PR70230
3	1	MOUNT, SLURRY PAN, RH	PR70216
4	1	MOUNT, SLURRY PAN, LH	PR70217
5	1	MOUNT, SPINNER, RH	PR70218
6	1	MOUNT, SPINNER, LH	PR70219
7	1	SIDE SHIELD, PTO & GEARBOX	PR70220
8	1	SLURRY PAN	PR70212
9	1	BELTING, TOP	PR70224
10	2	WELDED CYLINDER	HC-150-1004
11	1	RUBBER, BOTTOM SKIRT	PR70235
12	1	RUBBER, MID SKIRT	PR70236
13	1	TOP PANEL	PR70231
14	1	BACK PANEL, HYDRAULIC LIFT	PR70233
15	1	ADJUSTABLE PANEL	PR70234
16	2	BACKING BAR, BELTING	PR70238
17	2	HORIZ. BEATER ASSY	VTB-CMP-2106
18	2	FLANGE BEARING HOUSING	BR-085-4PF
19	2	1.75" BEARING	BR-175-085-I
20	2	GREASE FITTING 1/8NPT	GF-1827
21	1	GEARBOX, BEATER	VTB-CMP-2200-C
22	1	YOKE, PTO	VTB-CMP-2200-I
23	2	CONE GUARD, PTO	VTB-CMP-2200-H
24	1	STRAIGHT GUARD, PTO	VTB-CMP-2200-J
25	1	SIDE GEARBOX, SPINNER	VTB-CMP-2200-G
26	1	GEARBOX, SPINNER	VTB-CMP-2200-D
27	1	SPINNER, LH	VTB-CMP-2200-E
28	1	SPINNER, RH	VTB-CMP-2200-F
29	2	MED. RUBBER T-LATCH	LA-1530
30	6	3/16 X 5/16 DOMED POP RIVET	RI-3-5-P
101	2	3/8-16 X 1-1/4 EYE BOLT, SS	BL-6-125-ES-SS
102	10	3/8-16 X 1-1/4 HHCS G5 ZC	BL-6-125-H
103	14	3/8-16 X 1-1/2 CARRIAGE BOLT G5 ZC	BL-6-150-C
104	30	3/8-16 X 1-1/4 CARRIAGE BOLT G5 ZC	BL-6-125-C
105	66	3/8 USS FW ZC	BL-6-FW
106	54	3/8 SPLIT LW ZC	BL-6-LW
107	54	3/8-16 HEX NUT ZC	BL-6-N
108	2	3/8-16 FIN H LN NE A563 GA ZC	BL-6-LN
109	5	1/2-13 X 1-1/2 HH C/S BOLT G5 ZC	BL-8-150-H
110	10	1/2 USS FW ZC	BL-8-FW
111	5	1/2-13 HEX FIN NUTS ZC	BL-8-N
112	2	5/8-11 X 3 HEX CAP G5 ZC	BL-10-300-H
113	4	5/8 USS FW ZC	BL-10-FW
114	2	5/8-11 HEX LN NE ZC	BL-10-LN

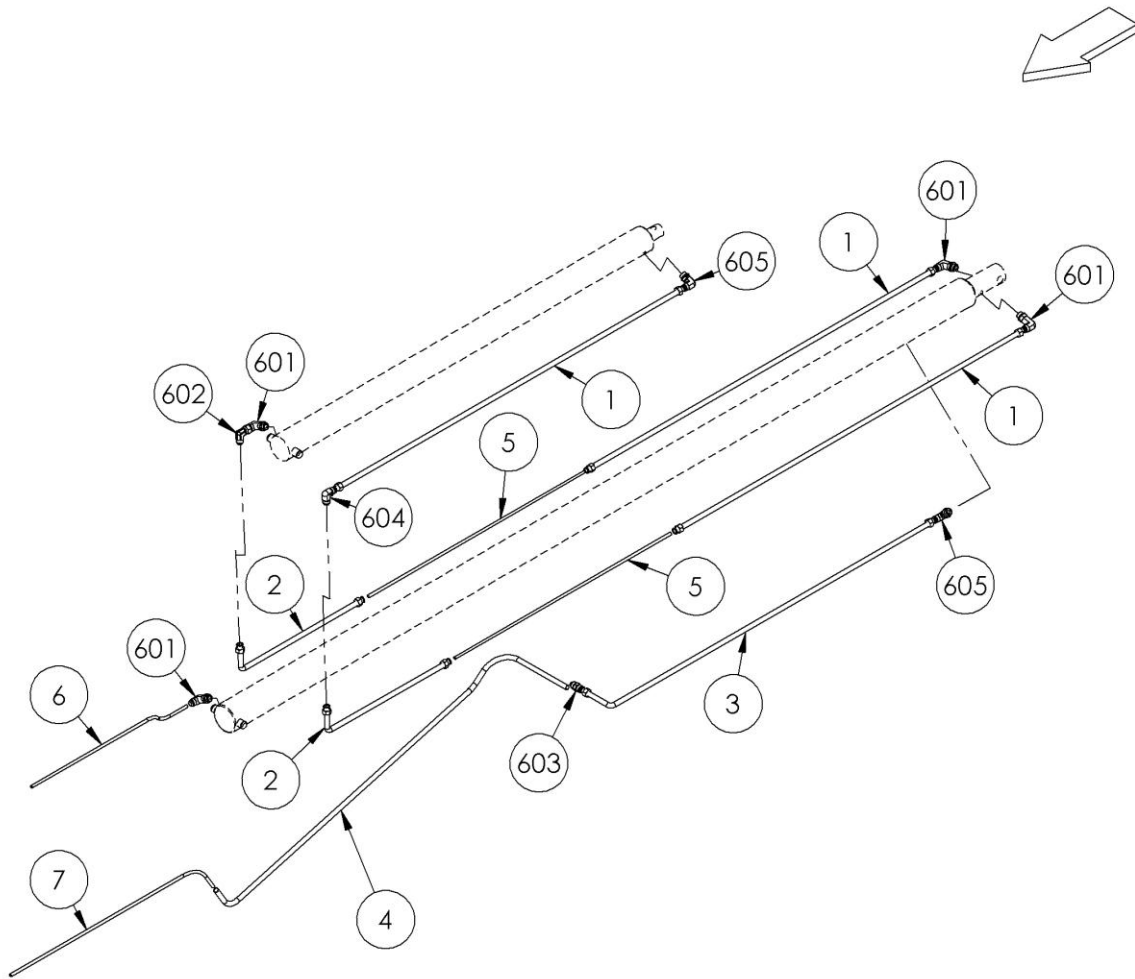


ITEM NO.	QTY	DESCRIPTION	PART NUMBER
801	1	HOUSING	VTB-1899-A1
802	2	HOUSING	VTB-1899-B1
803	1	SHAFT	VTB-1899-C1
804	2	THREADED RING	VTB-1899-D1
805	3	WASHER	VTB-1899-E1
806	2	BEVEL PINION Z=13	VTB-1899-F1
807	4	BEARING 32209	VTB-1899-G1
808	1	BEARING 6311	VTB-1899-H1
809	1	GEAR Z=24	VTB-1899-J1
810	1	CIRCLIP E 55	VTB-1899-K1
811	1	THREADED RING	VTB-1899-L1
812	2	SPACER	VTB-1899-M1
813	2	O-RING 2212	VTB-1899-N1
814	12	SCREW, HEX-HD M14X30	VTB-1899-P1
815	2	CALOTTE	VTB-1899-Q1
816	2	GASKET	VTB-1899-R1
817	2	OIL SEAL	VTB-1899-S1
818	2	BEARING 6311-2RS	VTB-1899-T1
819	2	SHAFT	VTB-1899-U1

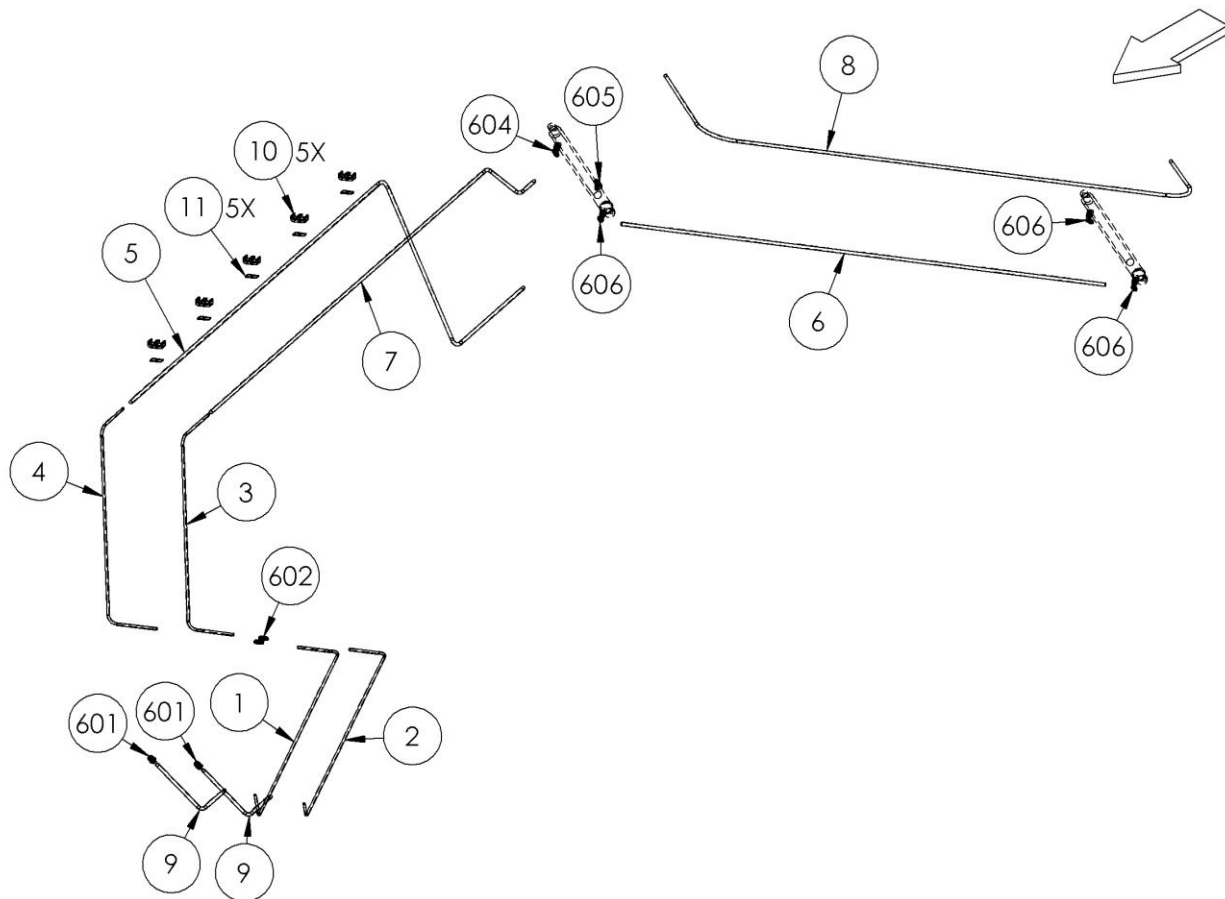
ITEM NO.	QTY	DESCRIPTION	PART NUMBER
820	2	SPACER	VTB-1899-V1
821	2	GEAR Z=22	VTB-1899-W1
822	2	BEARING 32210	VTB-1899-X1
823	2	SPACER L=428	VTB-1899-Y1
824	54	SCREW, HEX-HD M14X35	VTB-1899-Z1
825	6	GASKET	VTB-1899-A2
826	1	RIGHT SPACER L=178	VTB-1899-B2
827	1	OIL LEV. INDICATOR	VTB-1899-C2
828	1	OIL PLUG, 1/2" GAS	VTB-1899-D2
829	1	OIL PLUG, 1" GAS	VTB-1899-E2
830	1	LEFT SPACER, L=178	VTB-1899-F2
831	1	BEVEL PINION Z=17	VTB-1899-G2
832	1	GASKET	VTB-1899-H2
833	1	HUB	VTB-1899-J2
834	1	OIL SEAL	VTB-1899-K2
835	1	SHAFT	VTB-1899-L2
836	1	HUB COMPLETE	VTB-1899-M2
837	2	CALOTTE COMPLETE	VTB-1899-N2



NOTE:
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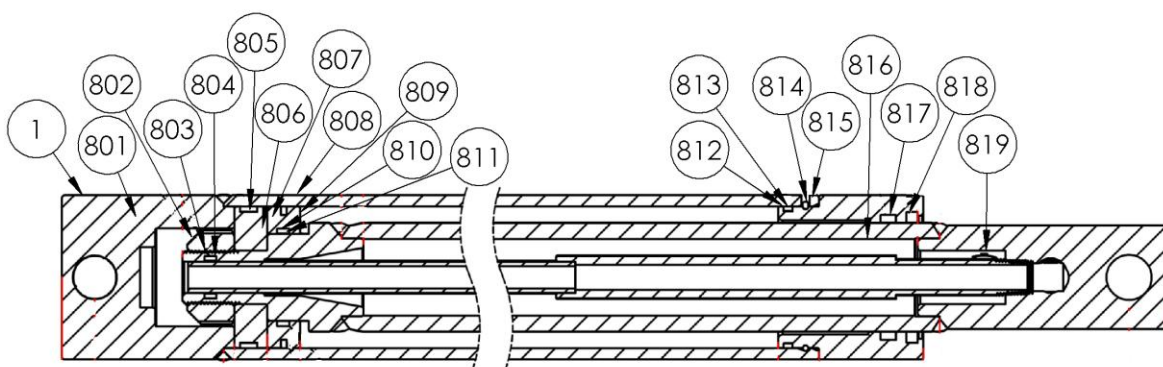
ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	3	5/8" SS TUBE, FLOOR/PUSHER	H-T7001
2	2	5/8" SS TUBE, FLOOR/PUSHER	H-T7002
3	1	5/8" SS TUBE, FLOOR/PUSHER	H-T7003
4	1	5/8" SS TUBE, FLOOR/PUSHER	H-T7045
5	2	1/2" HOSE, 5/8MJ X 5/8MJ X 39.75 L	H8-40-10MJ-10MJ
6	1	1/2" HOSE, 1/2MP X 5/8FJ X 90 L	H8-90-8MP-10FJ
7	1	1/2" HOSE, 1/2MP X 5/8MJ X 100 L	H8-100-8MP-10MJ
8	5	HYTRAN @ GAL	HY-TRAN
601	4	ELBOW, LONG, 5/8MJ x 10 SAE	A-6801-L-10
602	1	90 ELBOW, 5/8" MJ X 5/8" FJX	A-6500-10
603	1	UNION, 5/8MJ X 5/8MJ	A-2403-10
604	1	ELBOW, 5/8MJ X 5/8MJ	A-2500-10
605	2	ELBOW, 5/8" MJ X 10 SAE	A-6801-10
606	2	TRACTOR QUICK COUPLER, MALE, 1/2" w/ FPT	A-QD2010-8-8



ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	3/8" SS TUBE, ENDGATE, TONGUE	H-T7048
2	1	3/8" SS TUBE, ENDGATE, TONGUE	H-T7042
3	1	3/8" SS TUBE, ENDGATE, POST	H-T7043
4	1	3/8" SS TUBE, ENDGATE, POST	H-T7044
5	1	1/4" HOSE, 3/8" MJ X 3/8" FJ X 169"	H4-169-6MJ-6FJ
6	1	1/4" HOSE, 3/8" FJ X 3/8" FJ X 97"	H4-97-6FJ-6FJ
7	1	1/4" HOSE, 3/8" MJ X 3/8" FJ X 147"	H4-147-6MJ-6FJ
8	1	1/4" HOSE, 3/8" FJ X 3/8" FJ X 144"	H4-144-6FJ-6FJ
9	2	1/4" HOSE, 3/8" MJ X 1/2" MP X 100"	H4-100-6MJ-8MP
10	5	HOSE CLAMP, OD 1/2"	PR34896
11	5	SUPPORT, CLAMP	PR34894
601	2	TRACTOR QUICK COUPLER, MALE, 1/2 FPT	A-QD2010-8-8
602	2	UNION, 3/8" MJ X 3/8" MJ	A-2403-6-6
604	1	TEE, 3/8" MJ X 3/8" MJ X 3/8" SAE	A-6803-6
605	1	TEE, 3/8" MJ X 3/8" FJX X 3/8" MJ	A-6602-6
606	3	ELBOW, 3/8" MJ X 3/8" SAE	A-6801-6

7015-3-03

Cylinder, Sliding Floor



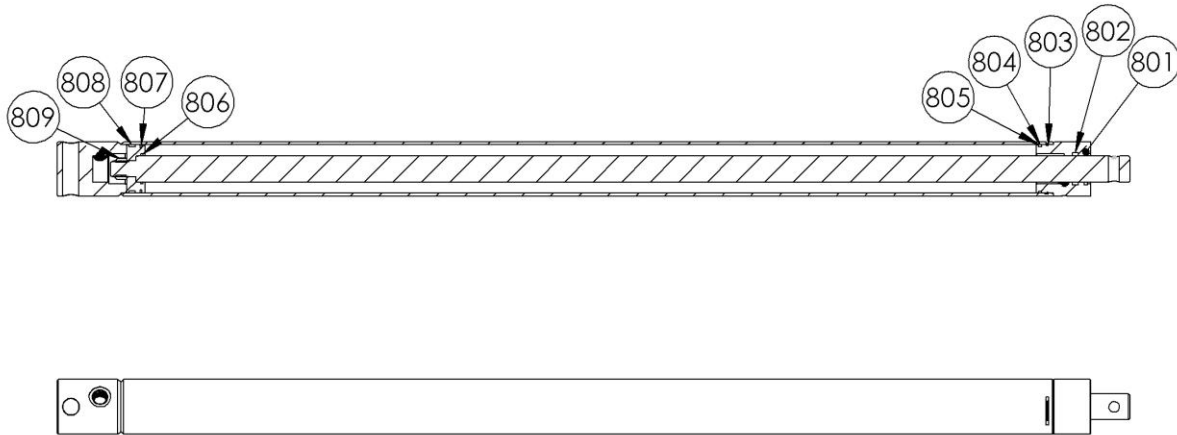
(820) SEAL KIT

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ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	MAIN CYLINDER	PR23132
801	1	BARREL ASSY	PR23131-L
802	1	LOCKNUT - THIN	PR23131-M
803	2	BACKUP WASHER	PR23131-N
804	1	O-RING	PR23131-O
805	1	WEAR RING	PR23131-P
806	1	PISTON	PR23131-Q
807	1	PISTON	PR23131-R
808	1	PISTON RING	PR23131-A
809	1	O-RING	PR23131-B
810	1	O-RING	PR23131-C
811	2	BACK-UP WASHER	PR23131-D
812	1	O-RING	PR23131-E
813	1	BACK-UP WASHER	PR23131-F
814	1	LOCK RING	PR23131-LR
815	1	BEARING ASSEMBLY	PR23131-G
816	1	TRANSFER TUBE	PR23131-H
817	1	BEARING SEAL	PR23131-I
818	1	WIPER	PR23131-J
819	1	PISTON ROD ASSY	PR23131-K
820	1	SEAL KIT, MAIN CYL.	PR23131-SK

7015-3-04

Cylinder, Pusher

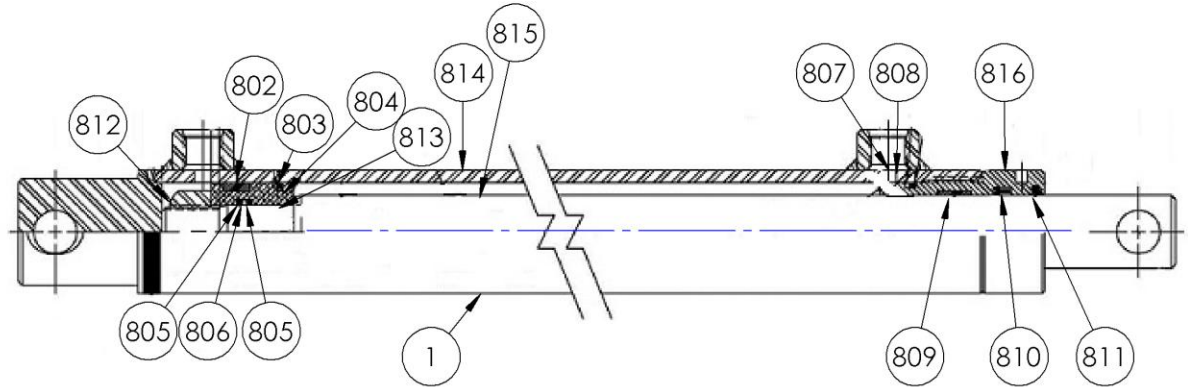


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ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	SECONDARY CYLINDER	PR23144
801	1	SEAL KIT	PR23143-SK
802	1	ROD SEAL	PR23143-F
803	1	LOCK RING	PR23143-H
804	1	BACK-UP RING	PR23143-E
805	1	O-RING	PR23143-D
806	1	ROD SEAL	PR23143-C
807	1	O-RING	PR23143-B
808	1	P / SEAL	PR23143-A
809	1	7/8-14 BSF NUT	PR23143-M

7015-3-05

Cylinder, Endgate



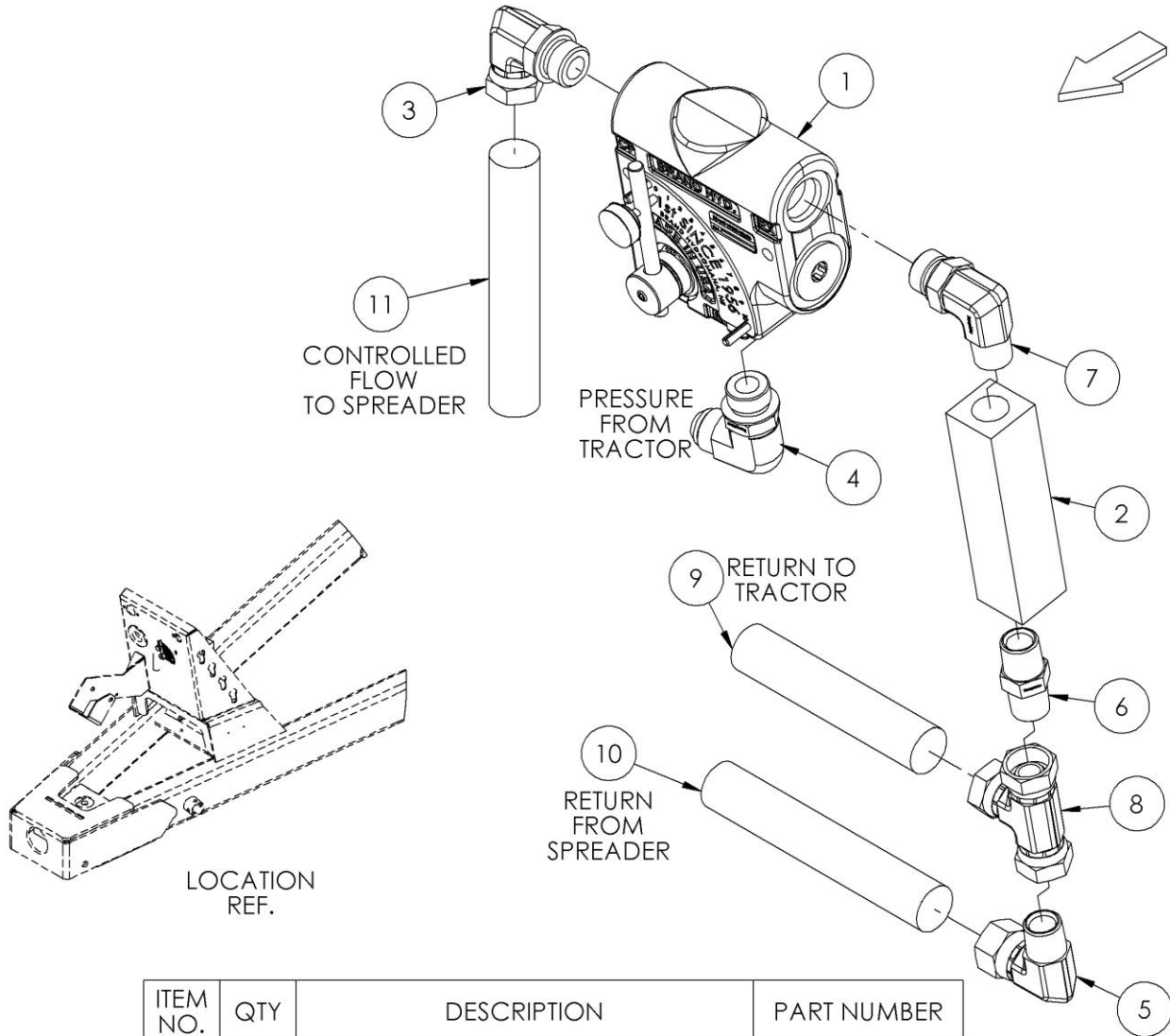
817 SEAL KIT

NOTE:
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FOR AVAILABILITY

ITEM NO	QTY	DESCRIPTION	PART NUMBER
1	2	CYLINDER, ENDGATE, 1.5 BORE	PR39068
802	1	WEAR RING	PR39068-A
803	1	TFE SEAL	PR39068-B
804	1	O RING	PR39068-C
805	2	BACK-UP RING	PR39068-D
806	1	O RING	PR39068-E
807	1	O RING	PR39068-F
808	1	BACK-UP RING	PR39068-G
809	1	WEAR RING	PR39068-H
810	1	LOADED U-CUP	PR39068-I
811	1	ROD WIPER	PR39068-J
812	1	LOCKNUT	PR39068-K
813	1	PISTON	PR39068-L
814	1	BARREL ASSEMBLY	PR39068-M
815	1	ROD	PR39068-N
816	1	INTERNAL CYL. HEAD, 1-1/2" (FINE)	PR39068-OB
817	1	SEAL KIT, ENDGATE CYL., PER EACH	PR39068-SK

7015-3-06

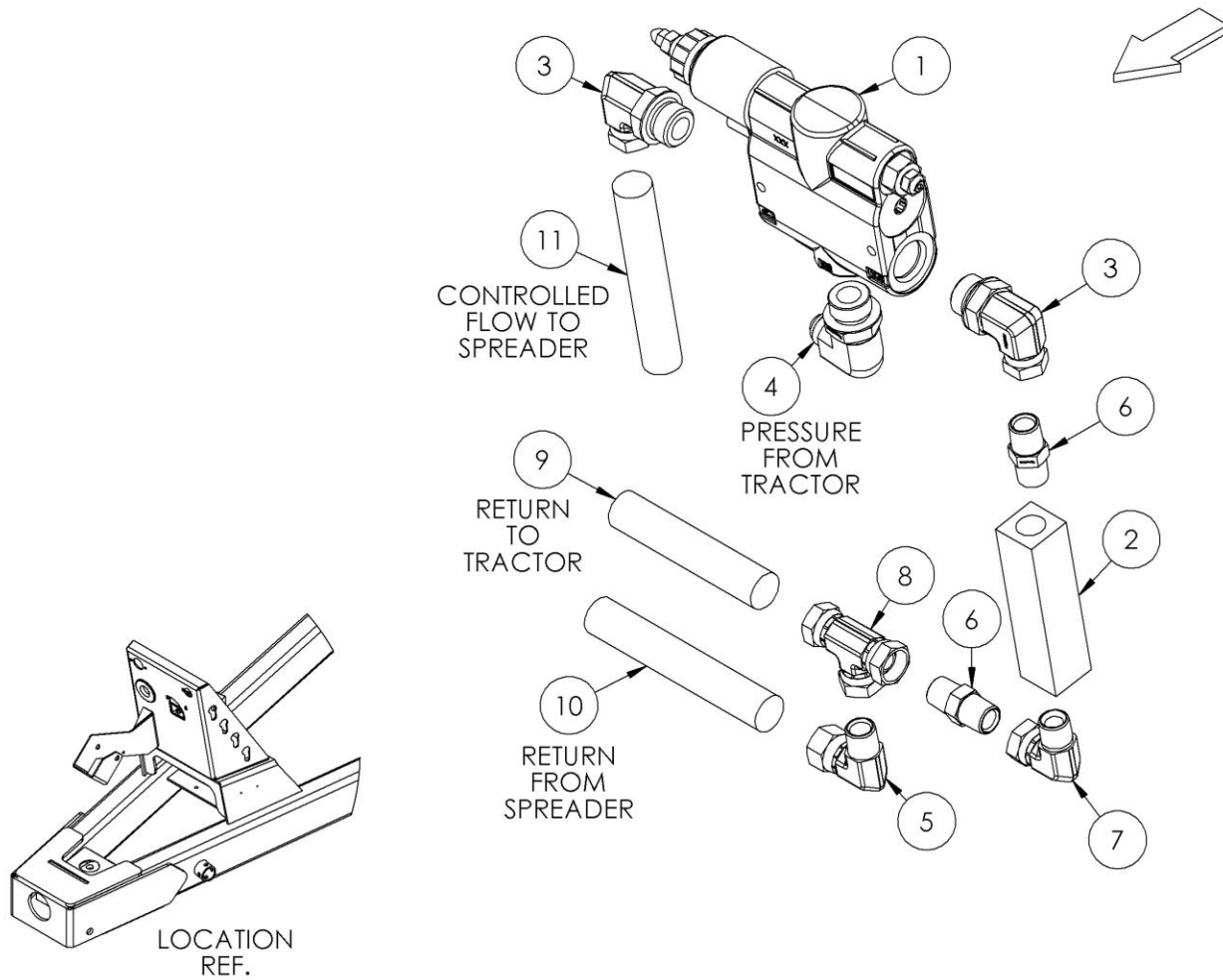
Opt. Control Valve, Open Center



ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	FLOW CONTROL	HV-FC5510
2	1	1/2" PARKER CHECK VALVE	HV-CKV-800S
3	1	10 SAE X 1/2 FPX90°, FORGED	A-6901-10-8
4	1	ELBOW, 5/8" MJ X 10 SAE	A-6801-10
5	1	ELBOW 1/2 MP X 5/8 FJX	A-6501-10-08
6	1	HEX NIPPLE 1/2" X 1/2"	A-5404-8-8
7	1	10 SAE X 1/2" MP 90°	A-6806-10-8
8	1	SWIVEL T 1/2" NPTF	A-1603-8-8-8
9	1	1/2" HOSE 1/2MP X 5/8MJIC X 27" L	H8-27-8MP-10MJ
10	1	1/2" HOSE X 1/2MP X 1/2MP X 94" L	H8-94-8MP-8MP
11	1	1/2" HOSE 1/2MP X 5/8FJ X 16" L	H8-16-8MP-10FJ
102	2	1/4-20 HEX LN NE ZC	BL-4-LN
103	4	1/4 USS FW ZC	BL-4-FW
104	2	1/4-20 X 3 HEX CAP G5 ZC	BL-4-300-H

7015-3-07

Opt. Remote Flow Control

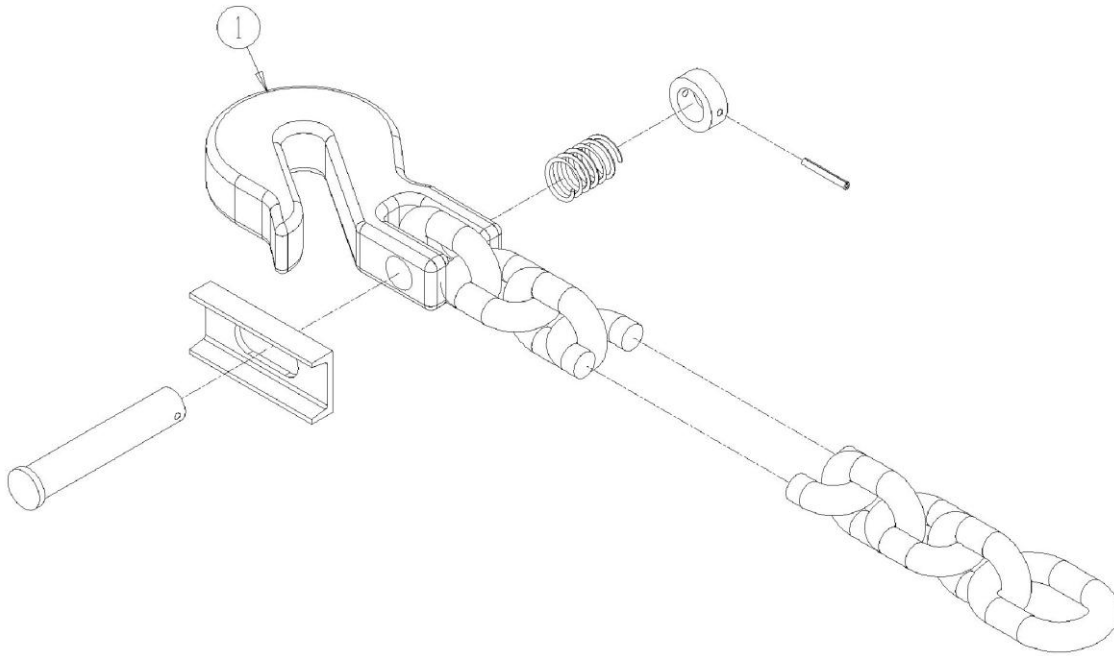


ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	ELECT. FLOW CONTROL	HVE-C122012
2	1	1/2" PARKER CHECK VALVE	HV-CKV-800S
3	2	ELBOW 12 SAE X 1/2" FPX	A-6901-12-8
4	1	ELBOW, 10 MJ X 12 SAE	A-6801-10-12
5	1	ELBOW 1/2 MP X 5/8 FJX	A-6501-10-08
6	2	HEX NIPPLE 1/2" X 1/2"	A-5404-8-8
7	1	1/2 MP X 1/2 FPX90°	A-1501-8-8
8	1	SWIVEL T 1/2" NPTF	A-1603-8-8-8
9	1	1/2" HOSE 1/2MP X 5/8MJIC X 27" L	H8-27-8MP-10MJ
10	1	1/2" HOSE X 1/2MP X 1/2MP X 94" L	H8-94-8MP-8MP
11	1	1/2" HOSE 1/2MP X 5/8FJ X 16" L	H8-16-8MP-10FJ
102	2	1/4-20 HEX LN NE ZC	BL-4-LN
103	4	1/4 USS FW ZC	BL-4-FW
104	2	1/4-20 X 3 HEX CAP G5 ZC	BL-4-300-H
201	40	14 GAUGE WIRE (BLUE)	ELC-14-BL

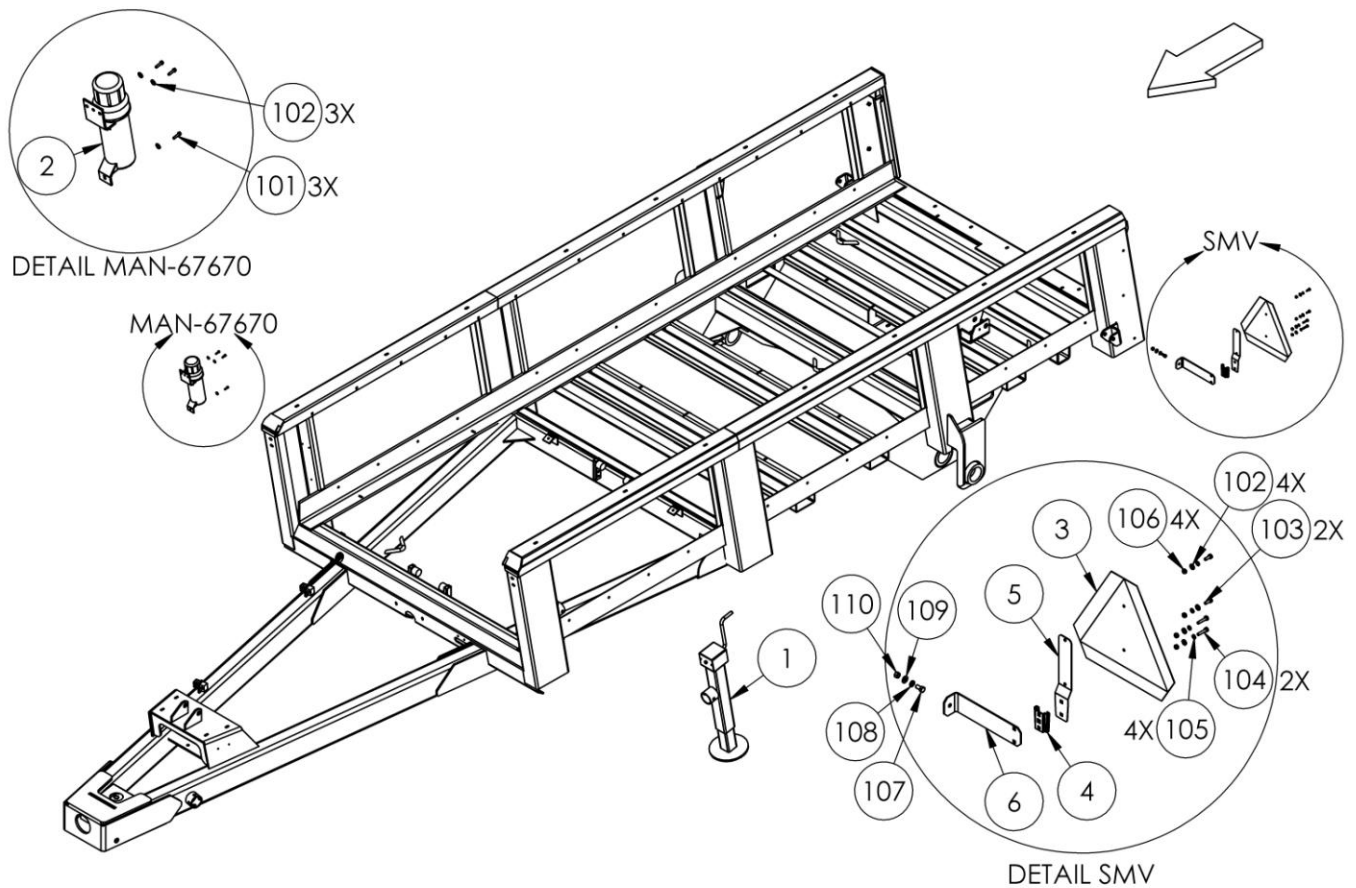
ITEM NO.	QTY	DESCRIPTION	PART NUMBER
202	20	14 GAUGE WIRE (RED)	ELC-14-R
203	20	14 GAUGE WIRE (BLACK)	ELC-14-BLK
204	20	1/4" WIRE LOOM @ FT	ELL-25-0
205	4	MALE TERMINAL	EL-30036
206	4	FEMALE TERMINAL	EL-30037
207	4	TWO CONTACT CLIP	EL-38035
208	2	MALE BODY	EL-38062
209	2	FEMALE BODY	EL-38063
210	8	CABLE SEAL	EL-39000
211	2	TERMINAL RING, 16-14 Ga. #10 BLUE	ELT-31703
212	1	BRAND FLOW VALVE ELEC. BOX	HV-1201
213	2	RIVET, FUSE HOLDER	EL-46009
214	1	SPRING, FUSE HOLDER	EL-46015
215	1	BODY, FUSE HOLDER	EL-46014
216	1	1.5 AMP FUSE, TYPE GMA	EL-70150

7015-4-01

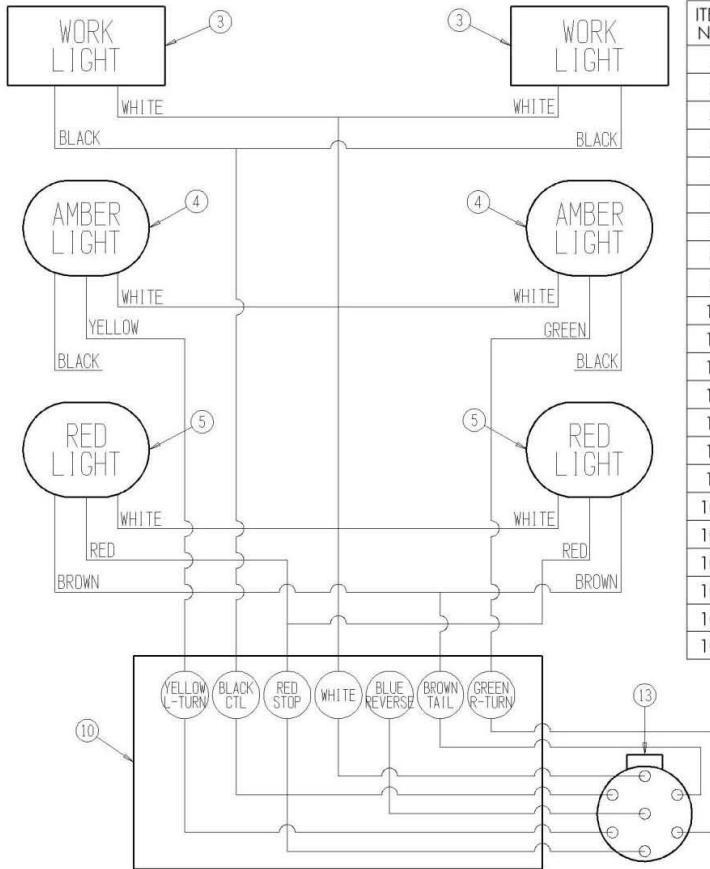
Safety Chain



ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	SAFETY CHAIN, 30,400 lb CAPACITY	FRM-3167
101	1	1" X 3-1/2" G5 HH BOLT ZC	BL-16-350H
102	1	1" LN w/ NYLON INSERT	BL-16-LN
103	1	WASHER, SAFETY CHAIN	PR37152
104	1	1" FW ZC	BL-16-FW



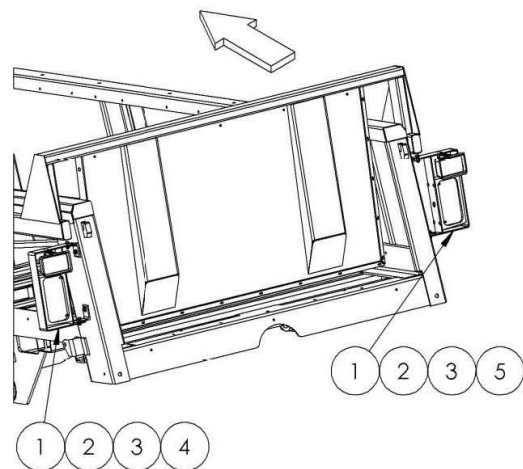
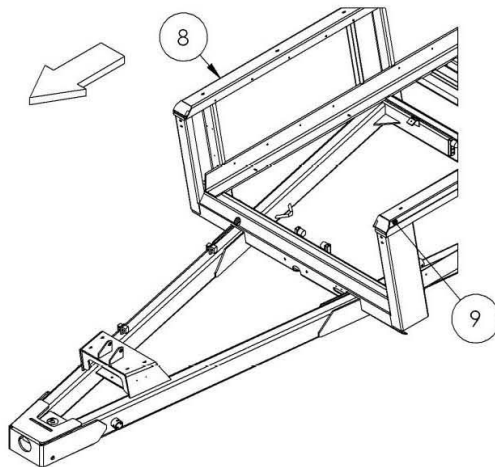
ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	JACK WELDMENT, RAM SIDEWIND JACK, 8000 LB 70318009-	WH-16218
1	0	JACK WELDMENT, SIDEWINE JACK, 9000 LB -70318008	WH-16216
2	1	MANUAL HOLDER	MAN-67670
3	1	SMV SIGN	SMV-PL
4	1	SOCKET, SPADE MOUNT	SMV-S
5	1	SPADE MOUNT	SMV-SM
6	1	BRACKET, SMV SIGN	PR39117
101	3	12-24 X 7/8 DRILL & TAP SCREW	BL-1224-087-DT
102	7	1/4 USS FW ZC	BL-4-FW
103	2	1/4-20 X 3/4 HH C/S BOLT G5 ZC	BL-4-075-H
104	2	1/4-20 X 1-1/4 HEX CAP G5 ZC	BL-4-125-H
105	4	1/4 SPLIT LW ZC	BL-4-LW
106	4	1/4-20 HEX FIN NUT ZC	BL-4-N
107	1	3/8-16 X 3/4 HHCS G5 ZC	BL-6-075-H
108	1	3/8 SPLIT LW ZC	BL-6-LW
109	1	3/8 SAE FW ZC	BL-6-SW
110	1	3/8-16 HEX NUT ZC	BL-6-N

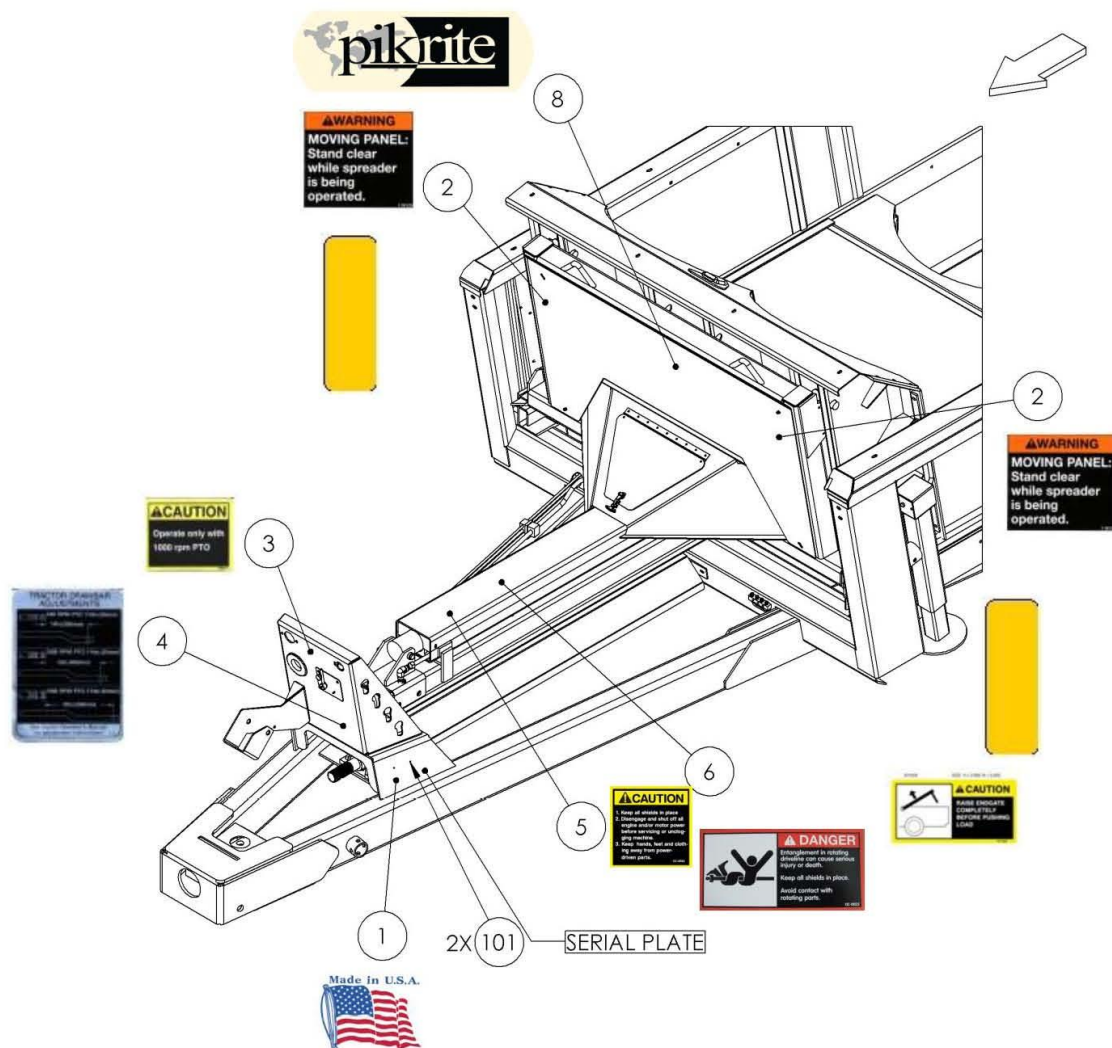


ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	2	LIGHT BRACKET	PR63004
2	4	MOUNT, LIGHT BRKT	PR70130
3	2	AUX. WORK LIGHT	EL-1233
4	1	LED LIGHT, LH	EL-1501
5	1	LED LIGHT, RH	EL-1502
6	1	4-PIN CONN., LH	EL-1503
7	1	4-PIN CONN., RH	EL-1504
8	1	HARNESS, RH	EL-40602-342
9	1	HARNESS, LH	EL-40603-426
10	2	HARNESS, WORK LT	EL-40604-13
11	1	JUNCTION BOX	ELE-15-964
12	1	7 CONDUCTOR, 55" L HARNESS	EL-50781-55
13	2	GROMMET	EL-0038
14	1	12 GA. 7 CONDUCTOR, 12' L SPIRAL CORD	ELC-127-144
15	1	TRAILER CONNECTOR HD SOCKET	ELT-37674
16	1	BOOT, TC HD SOCKET	EL-37679
100	16	3/8 USS FW ZC	BL-6-FW
101	8	3/8 SPLIT LW ZC	BL-6-LW
102	4	3/8 UNC FIN H LN NE A563 GRA ZC	BL-6-LN
103	12	3/8-16 X 1-1/4 HHCS G5 ZC	BL-6-125-H
104	8	1/4-20 HEX LN NE ZC	BL-4-LN
105	8	1/4 UNC X 1-1/2 CARRIAGE BOLT G5 ZC	BL-4-150-C

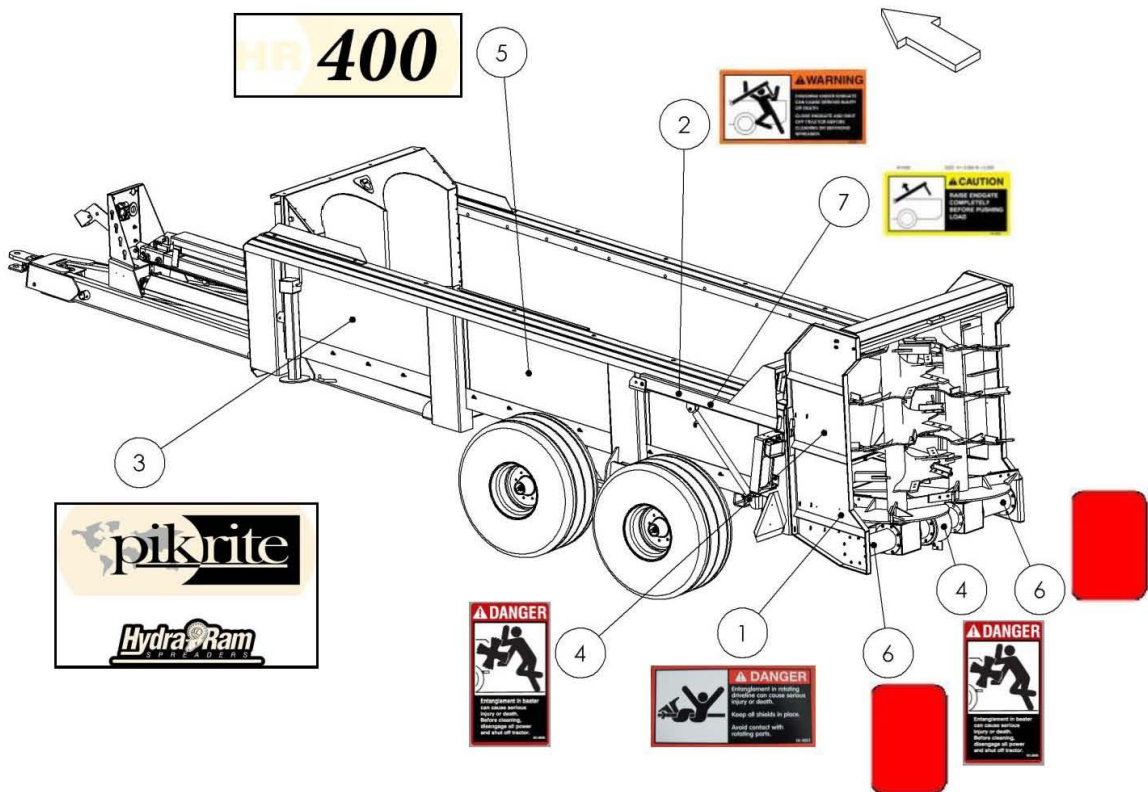
TYPICAL TRACTOR PLUG (LOOKING AT PLUG):

12 O'CLOCK - WHITE - GROUND
 10 O'CLOCK - BLACK - FIELD LIGHTS
 8 O'CLOCK - YELLOW - LEFT TURN
 6 O'CLOCK - RED - KEYED AUXILIARY
 4 O'CLOCK - GREEN - RIGHT TURN
 2 O'CLOCK - BROWN - TAIL LAMP
 CENTER - BLUE - KEYED AUXILIARY





ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	DECAL, MADE IN USA	DC-0011
2	2	DECAL, WARNING, MOVING PANEL	DC-0020
3	1	DECAL, CAUTION, 1000 rpm	DC-0021
4	1	DECAL, TRACTOR DRAWBAR	DC-0022
5	1	DECAL, CAUTION, SHIELDS	DC-0023
6	1	DECAL, DANGER, ENTANGLEMENT	DC-0025
7	2	DECAL, YELLOW REFLECTOR	EL-1226
8	1	DECAL, PIK RITE LOGO	DC-0097
9	1	DECAL, CAUTION, ENDGATE	DC-0038
101	2	POP RIVETS	RI-3-6-P



ITEM NO.	QTY	DESCRIPTION	PART NUMBER
1	1	DECAL, DANGER, ENTANGLEMENT	DC-0025
2	2	DECAL, WARNING, ENDGATE	DC-0026
3	2	DECAL, PIK RITE LOGO	DC-0107
4	3	DECAL, DANGER, BEATER	DC-0030
5	2	DECAL, HR 400 LOGO	DC-0098
6	2	DECAL, RED REFLECTOR	EL-1227
7	1	DECAL, CAUTION, RAISE ENDGATE	DC-0038

NOTES

NOTES

WARRANTY

Pik Rite, Inc. provides a limited warranty assuring any new Hydra-Ram 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: _____

Keep Page for Your Records

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

Phone: 800-326-9763
Fax: 570-523-8175
www.pikrite.com

HR 400
Manure Spreader