

pikrite

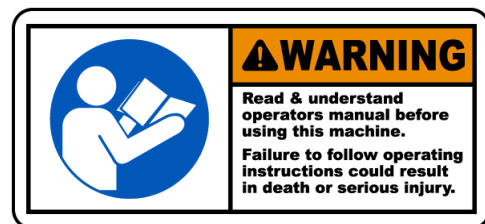
HP 880

Hydra-Pull
SPREADERS

OPERATION AND PARTS MANUAL



PROUDLY MADE IN THE USA



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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
INTRODUCTION	7
SAFETY	8
PREPARING THE TRACTOR	14
PREPARING THE SPREADER	16
CONTROLS	17
ATTACHING THE SPREADER	18
DETACHING THE SPREADER	19
TRANSPORT	20
OPERATING THE SPEADER	21
LUBRICATION AND MAINTENANCE	25
SPECIFICATIONS	30
PARTS MANUAL	31
7421-1-01 MAIN FRAME	32
7415-1-02 STONE GUARD	34
7415-1-03 FRONT SHIELDS	35
7415-1-05 ENDGATE	36
7421-1-06 ADR SQUARE AXLE	38
7421-1-07 WALKING BEAM, ADR AXLES	40
7421-1-07A OPT. WEIGH SCALE SYSTEM, DG400	42
7415-1-07B OPT. WEIGH SCALE SYSTEM, NT460	43
7415-1-07C OPT. WEIGH SCALE SYSTEM, 8000i	45
7421-1-08 TIRES AND WHEELS, 710/40-22.5	46
7421-1-08A OPT. TIRES AND WHEELS, 710/50-26.5	46
7415-1-09 OPT. METERING SHIELD	47
7415-2-01 FRONT DRIVELINE, 1000 RPM	48
7415-2-02 MAIN DRIVE SHAFT	50
7421-2-03 VERTICAL BEATERS	53
7421-2-03A OPT. COMPOST BEATERS, HYDRAULIC PANEL	57
7421-2-03B OPT. COMPOST BEATERS WITHOUT PANEL	61
7421-2-03C OPT. LITTER SPLITTER ATTACHMENT	64

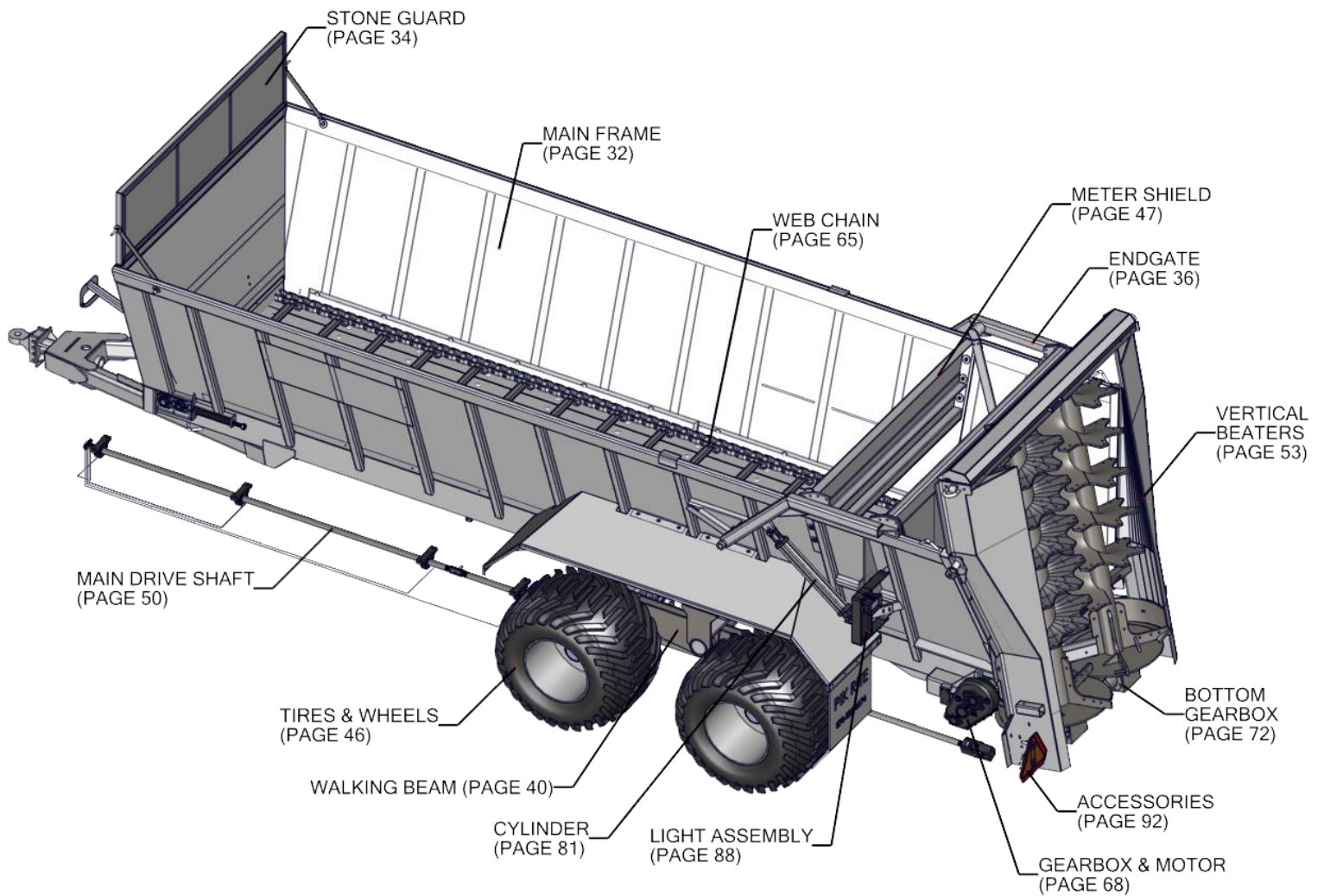
TABLE OF CONTENTS

7419-2-04	WEB CHAIN DRIVE	65
7415-2-05	WEB CHAIN GEARBOX AND MOTOR	68
7421-2-06A	OPT. REAR DRIVELINE, COMPOST	70
7421-2-07	GEARBOX, VERTICAL BEATERS	72
7421-2-08	OPT. GEARBOX, COMPOST BEATERS	74
7421-2-09	OPT. GEARBOX, COMPOST BEATERS, SIDE	76
7421-3-01	WEB DRIVE HYDRAULICS	78
7419-3-02	ENDGATE HYDRAULICS	80
7415-3-03	ENDGATE CYLINDERS	81
7419-3-04	OPT. COMPOST HYDRAULICS WITH TRIM PANEL	82
7419-3-05	OPT. COMPOST HYDRAULICS WITHOUT PANEL	83
7421-4-01	OPT. AIR BRAKES, ADR AXLES	84
7421-4-02	HYDRAULIC DRUM BRAKES, REMOTE	86
7421-4-03	OPT. HYDRAULIC DRUM BRAKES, EURO FF	87
7415-5-01	ELECTRICAL AND LIGHTING	88
7415-6-01	SAFETY CHAIN	91
7419-6-02	ACCESSORIES	92
7415-6-04	DECALS ON FRONT OF SPREADER	94
7421-6-04A	DECALS ON COMPOST	95
7415-6-05	DECALS ON SIDES OF SPREADER	96
7415-6-06	OPT. SIDE EXTENSIONS, BOLT-ON WITHOUT BOARD	97

99

WARRANTY

TABLE OF CONTENTS



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 Hydra-Pull series features heavy duty components throughout the entire spreader. With a pintle chain breaking strength of 60,000 lbs, a rugged steal box design, and poly board flooring for maximum strength and durability, this machine is designed to efficiently and uniformly spread manure.

Spring Tension Rollers – The spring loaded front idler rollers keep the chain secure and provides better chain tracking.

Two Piece Drive Sprocket – The pintle chain sprocket allows for service removal without completely disassembling the drive system.

Precision Application – Optional load cells in the spreader body allow the hydraulic drive to adjust speed for consistent output.



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.

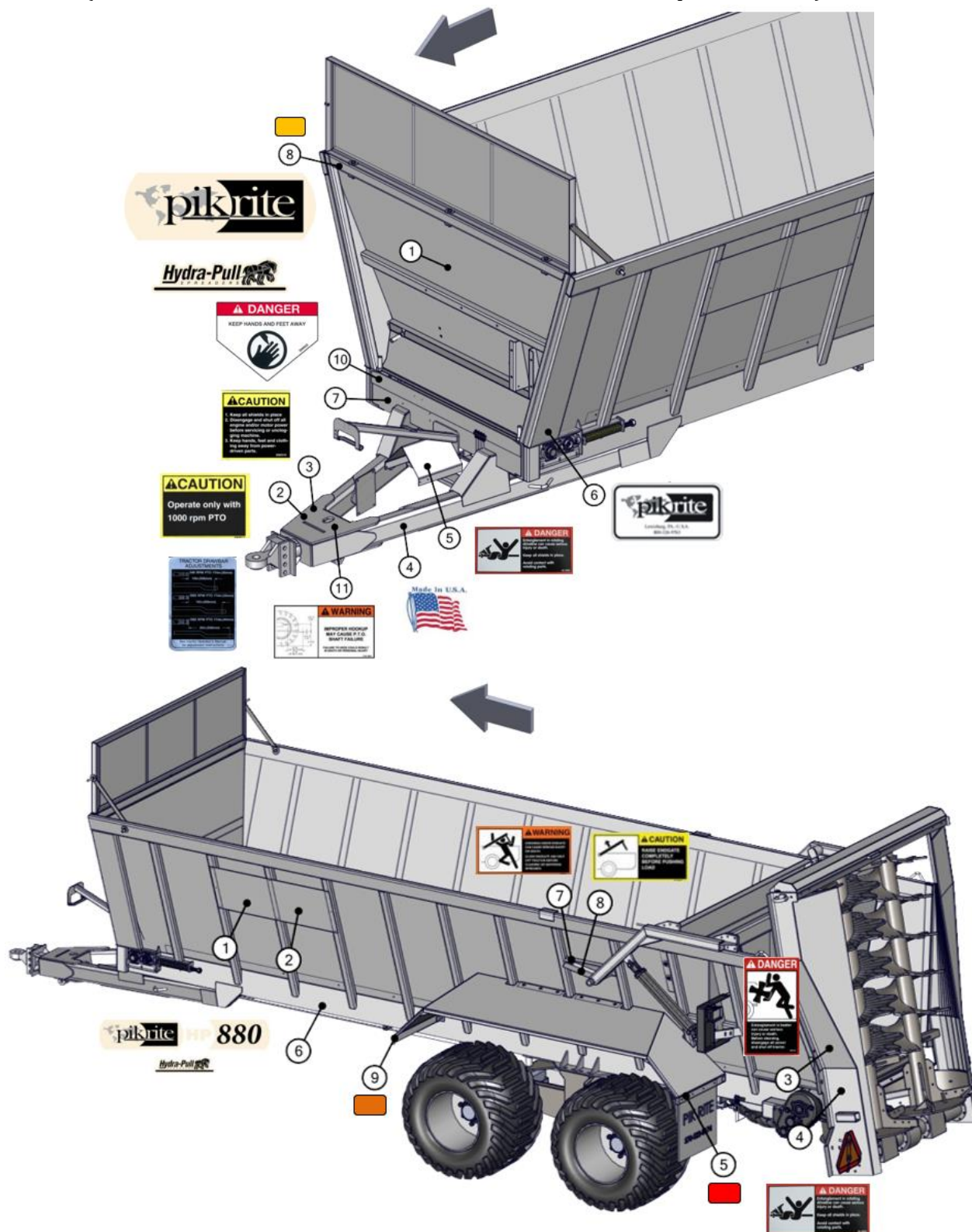
Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

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.



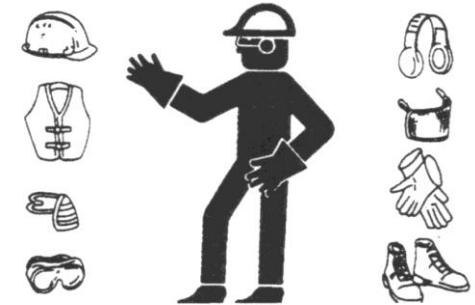
CAUTION WEAR PROTECTIVE CLOTHING

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.

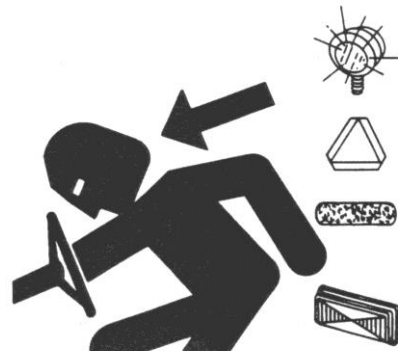


WARNING USE SAFETY LIGHTS AND DEVICES

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.

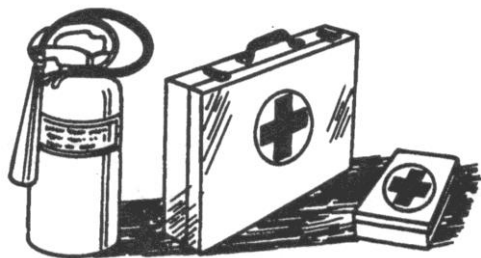
NOTICE

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.

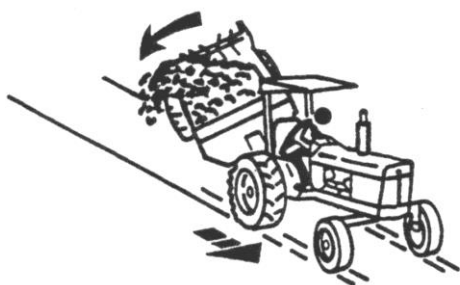
If spreader is connected to tractor, disengage PTO, engage parking brake and/or place transmission in "PARK," shut off engine and remove key.

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 HP880

Row Crop Tractors with 200 HP PTO rating or larger are approved for operation with the HP880 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 3.7 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 1500 psi minimum.

Two selective control valves are required to operate the spreader.

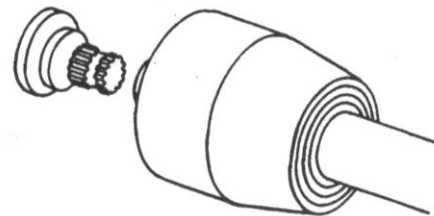
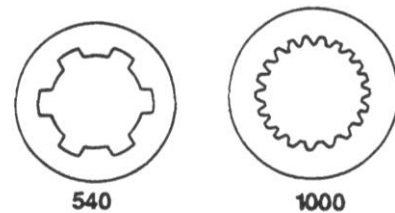
NOTICE CHOOSING CORRECT PTO SPEED

MODEL – HP880 – 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.

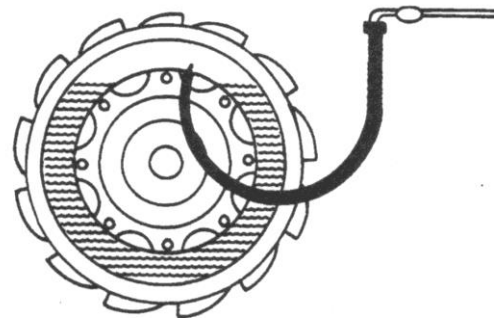


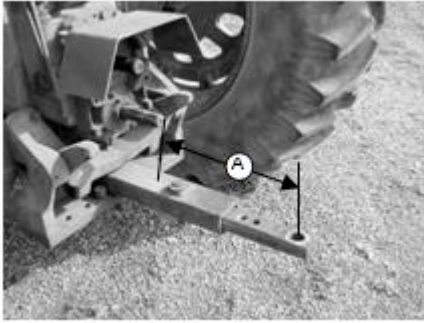
NOTICE BALLASTING THE TRACTOR

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

1000 rpm x 1-3/4

Dimension (A)

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 CHAIN 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 15 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.

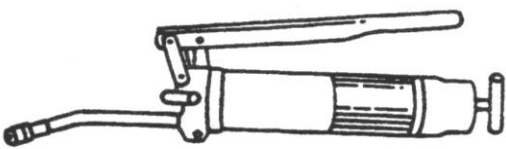
Fully retract all cylinders.

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.)



NOTICE BRAKE ADJUSTMENT (HYDRAULIC)

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



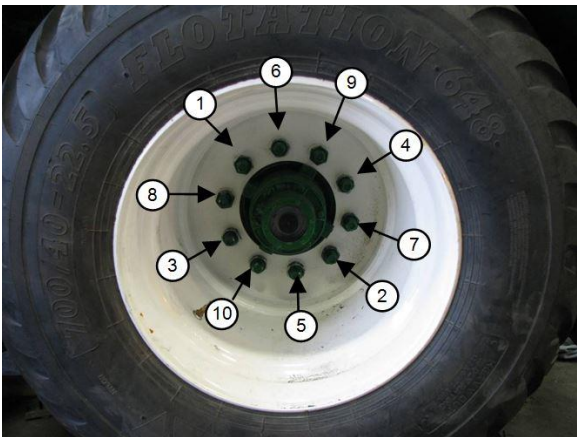
SAFETY INSTRUCTIONS TIGHTENING WHEEL HARDWARE

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 375 lb-ft of dry torque
in the sequence shown.

Tire Size	Wheel Size	Tire Pressure
710/50-26.5	26.5 x 28	60 psi
710/40-22.5	22.5 x 16	65 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.

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

SAFETY
INSTRUCTIONS**OPERATING THE ENDGATE**

Contact of apron chain running with endgate closed will cause damage. To avoid contact with apron chain, endgate must be raised when running.

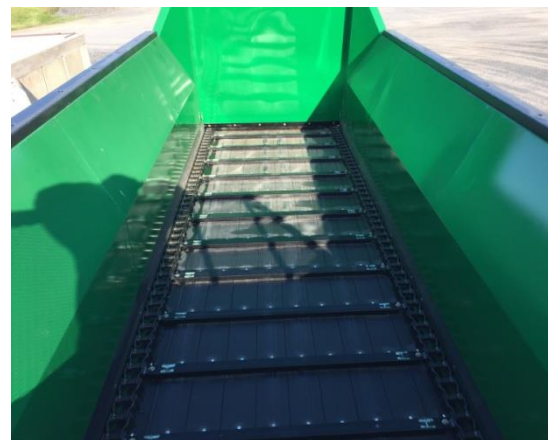
Operate the endgate with the second auxiliary control valve lever.

SAFETY
INSTRUCTIONS**OPERATING APRON CHAIN**

To run apron chain lock hydraulic control lever in operating position on tractor.

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 apron chain motor is 15 gpm. Trying to force through more oil than this may cause serious damage to motor (relief factory set at 1250 psi)



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 1-1/2 in. pin and secure.

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

2. Lock safety hook onto chain.



SAFETY INSTRUCTIONS CONNECTING AIR HOSES (AIR ASSIST BRAKES)

1. Connect red line to supply port.
2. Connect blue line to service/control port.



SAFETY INSTRUCTIONS CONNECTING HOSES (HYDRAULIC BRAKES)

1. Connect pressure hoses to pressure ports of hydraulic remote coupler.
2. Connect return hoses to return ports of hydraulic remote coupler.

(Relief factory set 1000 psi)

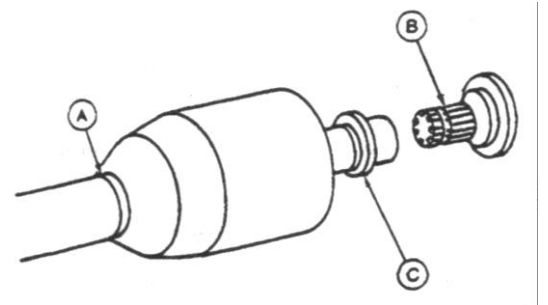


SAFETY INSTRUCTIONS ATTACHING DRIVELINE

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.



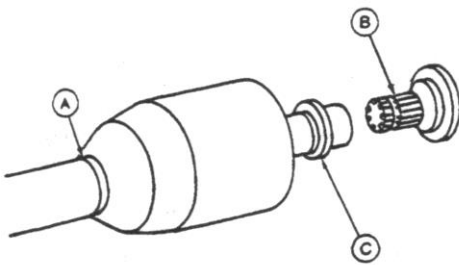
DETACHING THE SPREADER



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.

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.

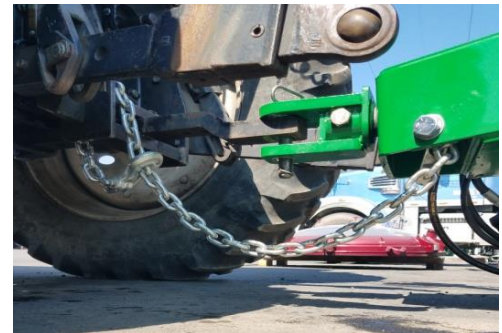


NOTICE

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)



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.



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.*

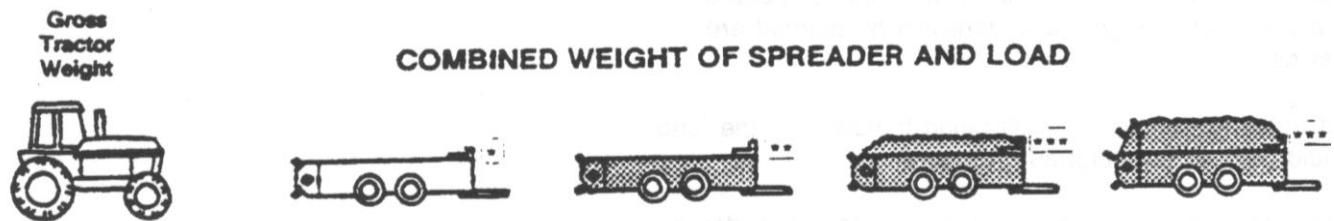
Calculated at 70 lb/cu ft

****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



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.



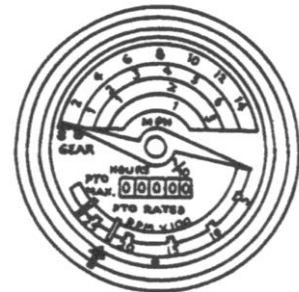
CAUTION PREPARE TO UNLOAD THE SPREADER

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 along edges of apron chain

Remove material buildup from endgate panel. Keep endgate arms clean to prevent freezing to side rails.

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.

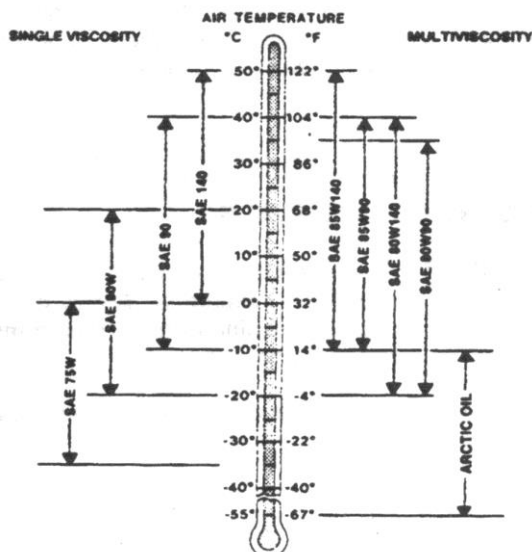
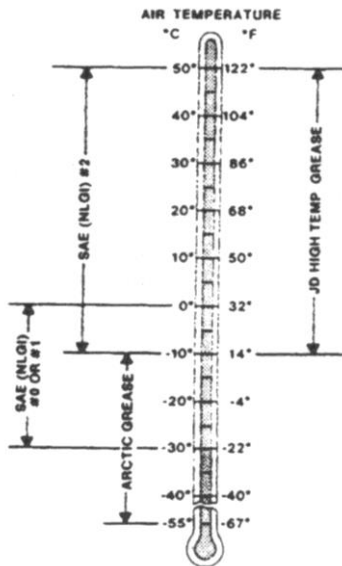
Moly-type grease is recommended, however, if not available, multipurpose grease is acceptable.

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

- Adjust apron chain
- Tighten wheel hardware
- Lubricate walking beam pivots

EVERY 250 HOURS

- Lubricate endgate pivots

SERVICE AS REQUIRED

- Adjust apron chain tension
- Slip the clutch

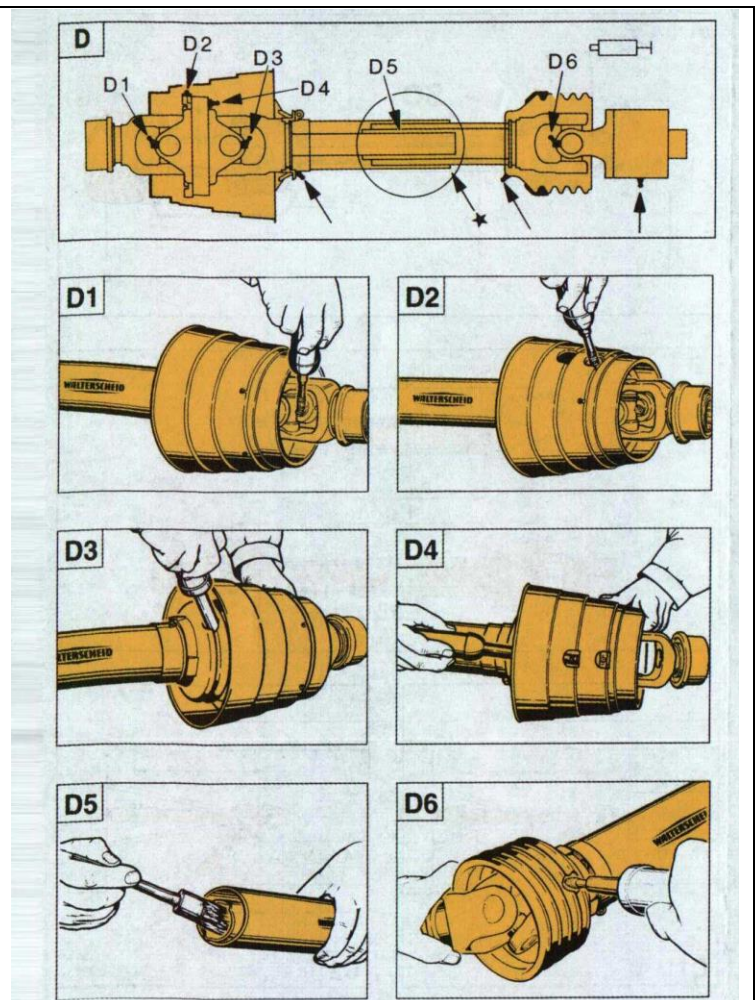
In addition to the above referenced information, you are working with a central lube CV design on the primary that contains a special lubrication provision that needs to be well defined for the user so that extended life on the CV can be achieved.

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.

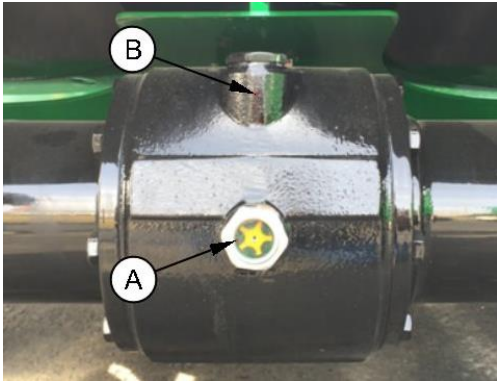
Primary Driveline (to Tractor) Lubricate fittings D1 through D6 every eight hours of operation.

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>
710/50-26.5	26.5 x 28	60 psi
710/60-22.5	22.5 x 16	65 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 THE CHAIN

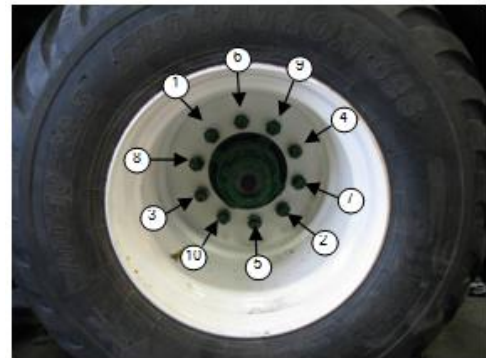
1. Loosen the jam nut at the bearing enough to adjust.
2. Tighten the nut at the end of the threaded rod so the spring length is 10" (between the plates).
3. Retighten the jam nut.



NOTICE TIGHTENING WHEEL HARDWARE

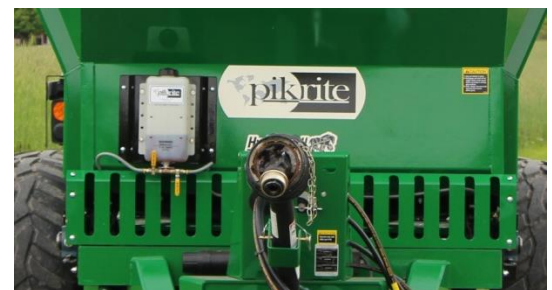
Operating the spreader with loose wheel hardware will damage the hub or wheel. Tighten hardware after initial transport, after one hour of operation, and every fifty hours thereafter.

Tighten to 375 lb.-ft. in the sequence shown.



NOTICE LUBRICATE CHAIN DRIVE

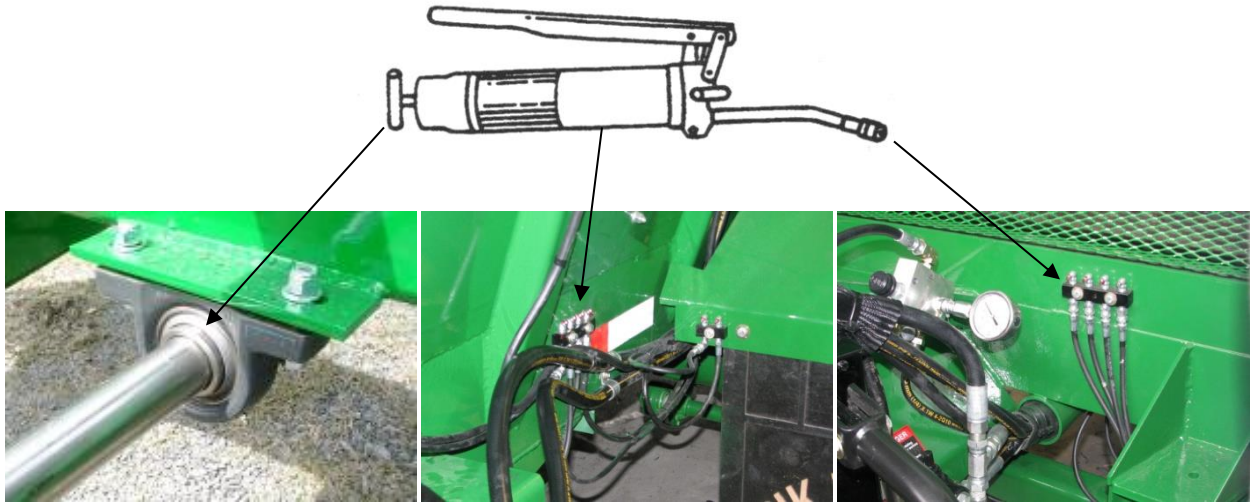
Before long periods of storage, always oil the chain. Run the chain with both ball valves fully open for 5 minutes. Approximately usage will be a quart of oil every lubrication cycle



LUBRICATE THE SIX 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



LUBRICATE WALKING BEAMS

Using grease banks attached to the rear fenders (two on each side).



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



LUBRICATE HITCH

Every 40 hours

SPECIFICATIONS

TRACTOR SIZE

Minimum recommended	200 hp PTO
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WEIGHT

Spreader, Complete with Implement tires And all Attachments	17,040 lb
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LOAD CAPACITY	48,400 lb
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VOLUME CAPACITY

Struck Level	712 cu. ft.
Heaped Load	1096 cu. ft.

BEATER SPEED	420 rpm
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UNLOADING SPEED

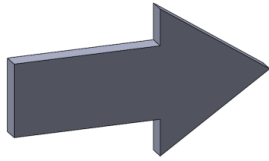
Infinitely Variable	0-16 ft/min
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DRIVELINE

Shielded	1000 rpm
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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
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000-099	PARTS USED FOR ASSEMBLY
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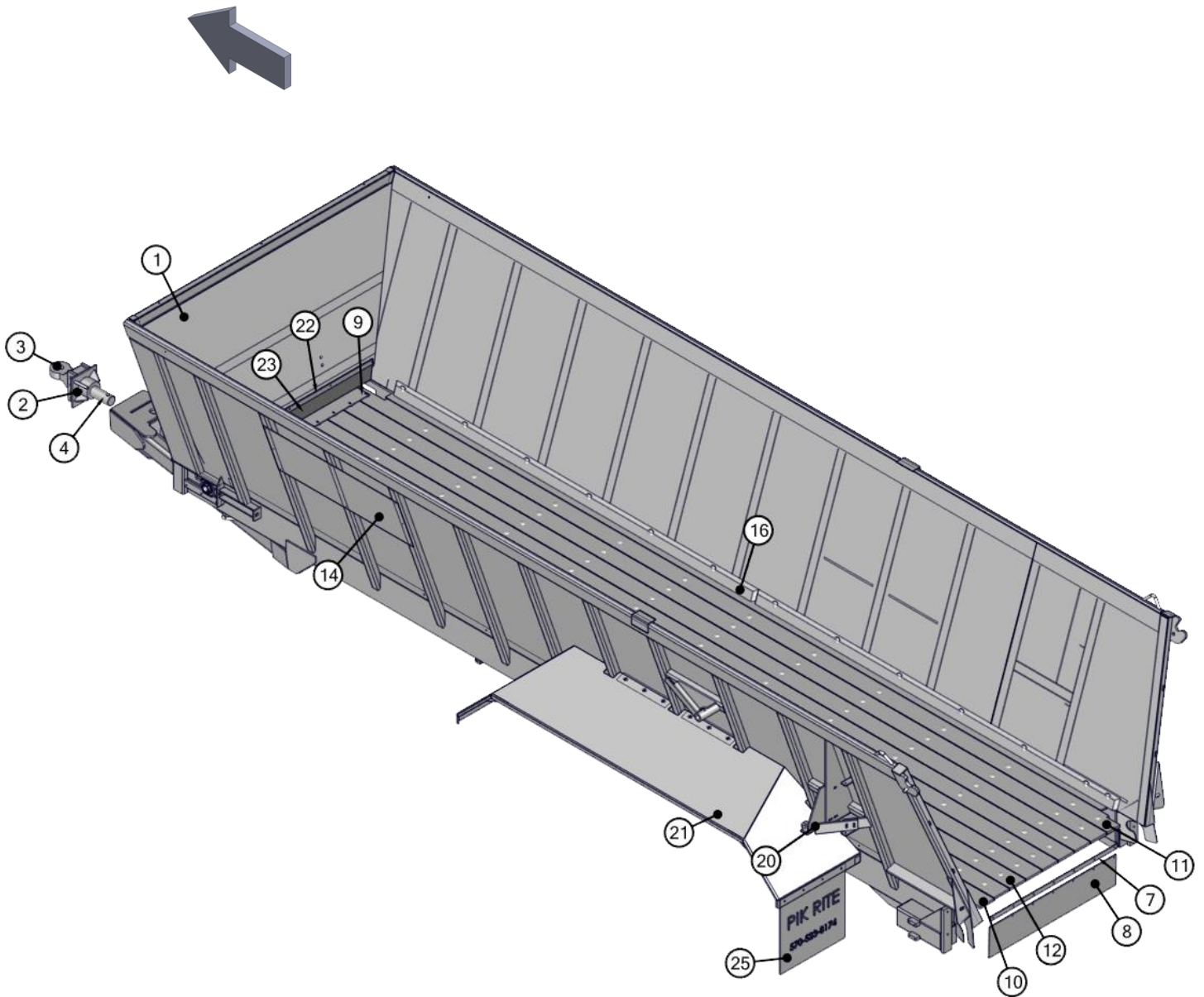
100-199	BOLTS AND FASTENERS
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200-299	ELECTRICAL COMPONENTS
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800-899	REPLACEMENT PARTS (USED TO REPAIR ASSEMBLIES)
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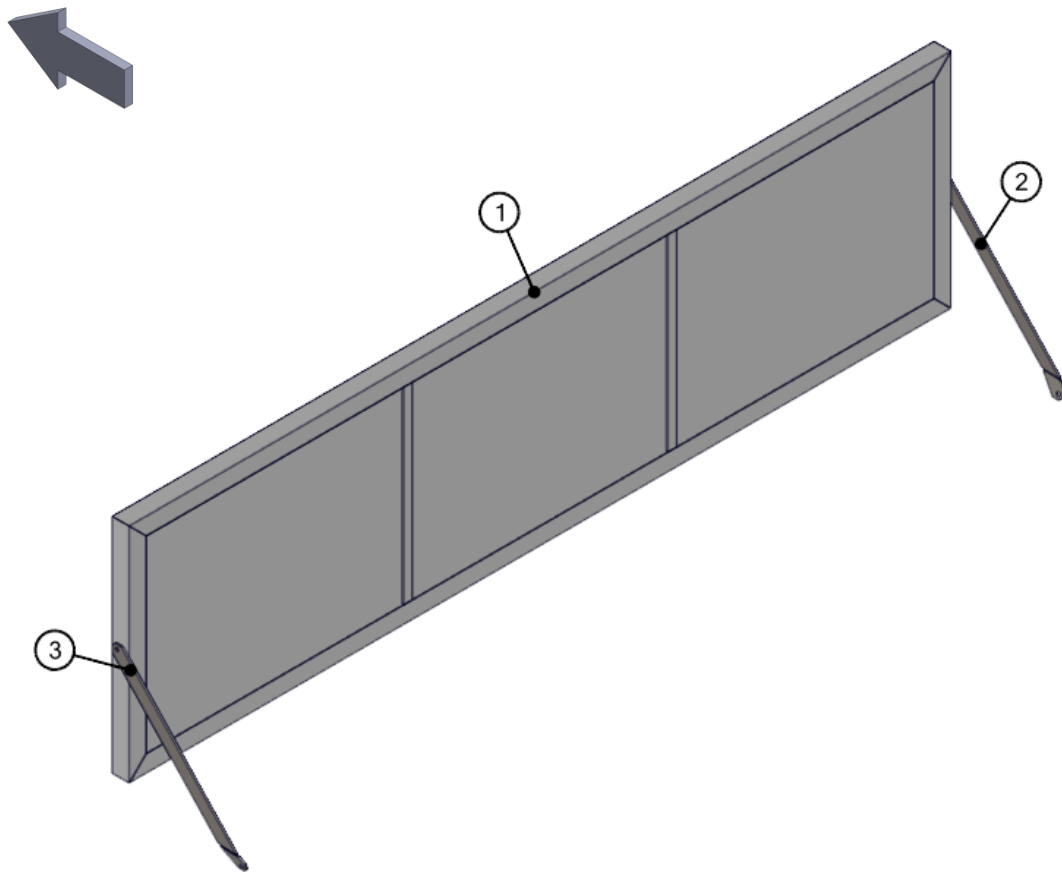
7421-1-01 MAIN FRAME

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	PR63017	Main Frame, HP880	1		
2	PR80007	Load Cell Mount, Hitch Area, 1880 VB	1		
3	TH-0002	Bull-Pull Articulating Hitch, 3-Bolt	1		
4	PR63101	Hitch Shaft, Hardened, Long	1		
7	PR60080	Backing Bar	1		
8	PR60079	Rear Belting	1		
9	PR60063	End Cap, Poly Board	1		
10	PR60053	Poly Board, L.H., .75 x 6.00 x 282" Tongue and Groove	1		
11	PR60052	Poly Board, R.H., .75 x 6.00 x 282" Tongue and Groove	1		
14	PR60043	Decal Plate, Angled, Side	2		
16	PR60037	Bottom Bumper Rail, HP880	4		
17	PR60156	Fender, RH	1		
19	PR60024	Bracket, RH, End Gate Mount	1		
20	PR60023	Bracket, LH, End Gate Mount	1		
21	PR60155	Fender, LH	1		
22	PR60019	Flat Bar	1		
23	PR60018	Belting	1		
12	PR60009	Poly Board .75 x 6.00 x 282" Tongue and Groove, HP880	7		
25	MF-9307	24" X 24" Mudflaps, w/ Name (pc)	2		



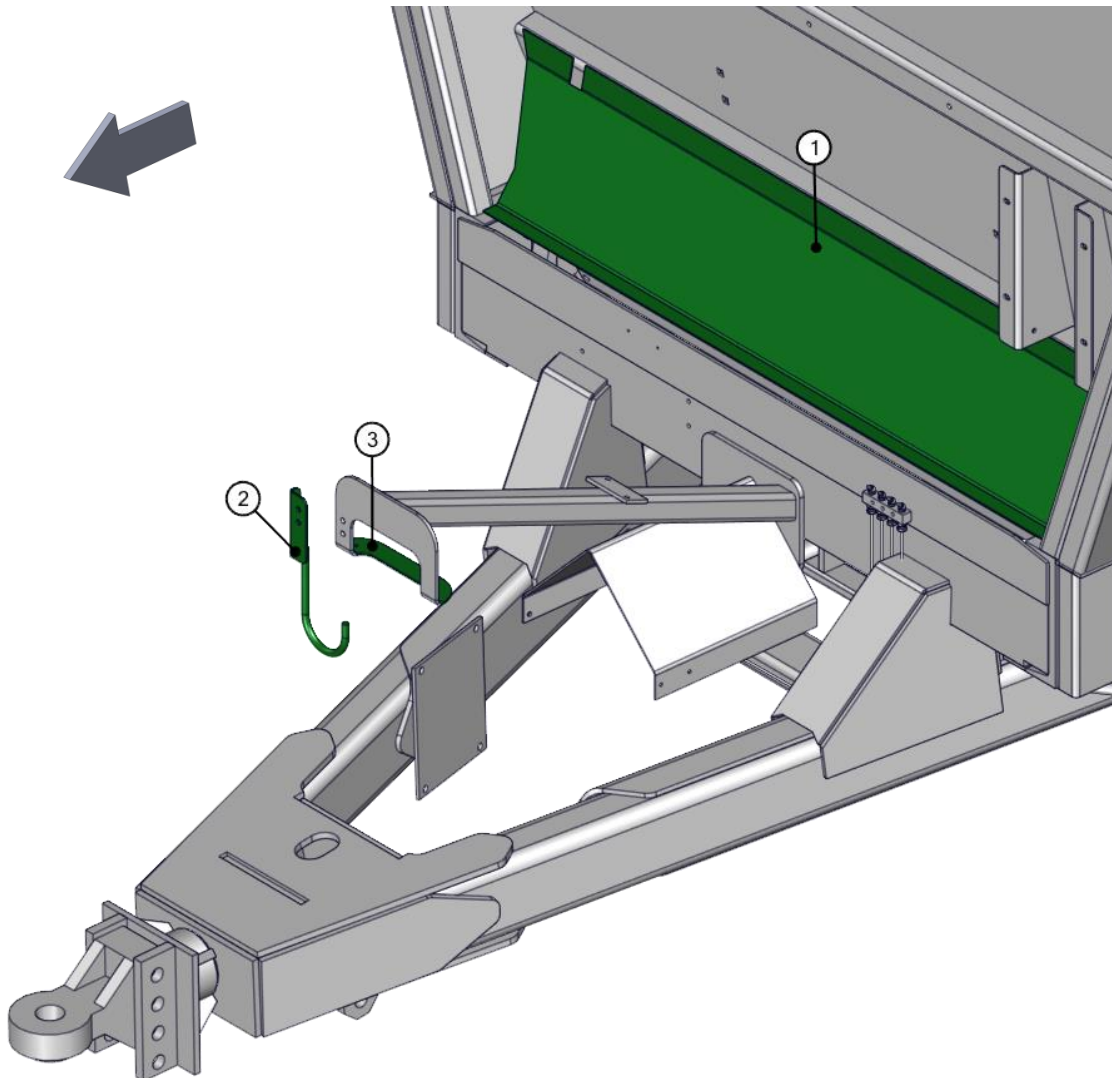
7415-1-02 STONE GUARD

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	PR39170	Screen, Rock Shield	1		
2	PR39171	Support, Rock Guard, RH	1		
3	PR39172	Support, Rock Guard, LH	1		
100	BL-6-FW	3/8 USS FW ZC	14		
101	BL-6-LN	3/8-16 FIN H LN NE A563 GA ZC	7		
102	BL-6-400-H	3/8-16 X 4 HEX CAP G5 ZC	3		
103	BL-6-100-H	3/8-16 X 1 HH C/S BOLT G5 ZC	2		
104	BL-6-300-H	3/8-16 X 3 HH C/S BOLT G5 ZC	2		



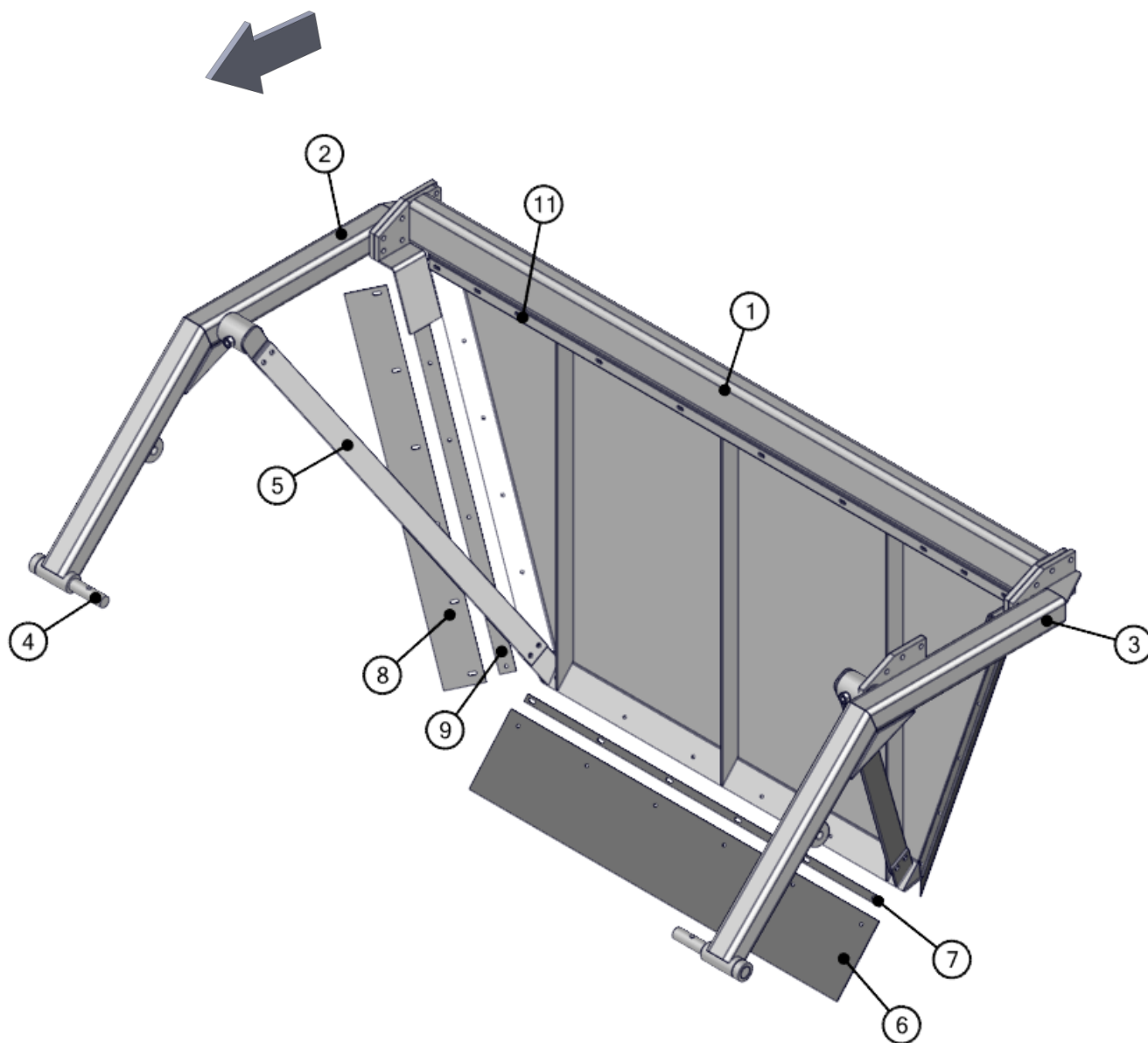
7415-1-03 FRONT SHIELDS

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	PR60001	Front Spocket Cover	1		
2	PR63003	PTO Holder	1		
3	PR60403	Belting Hose Holder	1		
100	BL-4-FW	1/4 USS FW ZC	8		
101	BL-4-LN	1/4-20 HEX LN NE ZC	6		
102	BL-4-100-H	1/4-20 X 1 HH C/S G5 ZC	2		
103	BL-6-SW	3/8 SAE FW ZC	4		
104	BL-6-LN	3/8-16 FIN H LN NE A563 GA ZC	2		
105	BL-6-125-H	3/8-16 X 1-1/4 HHCS G5 ZC	2		



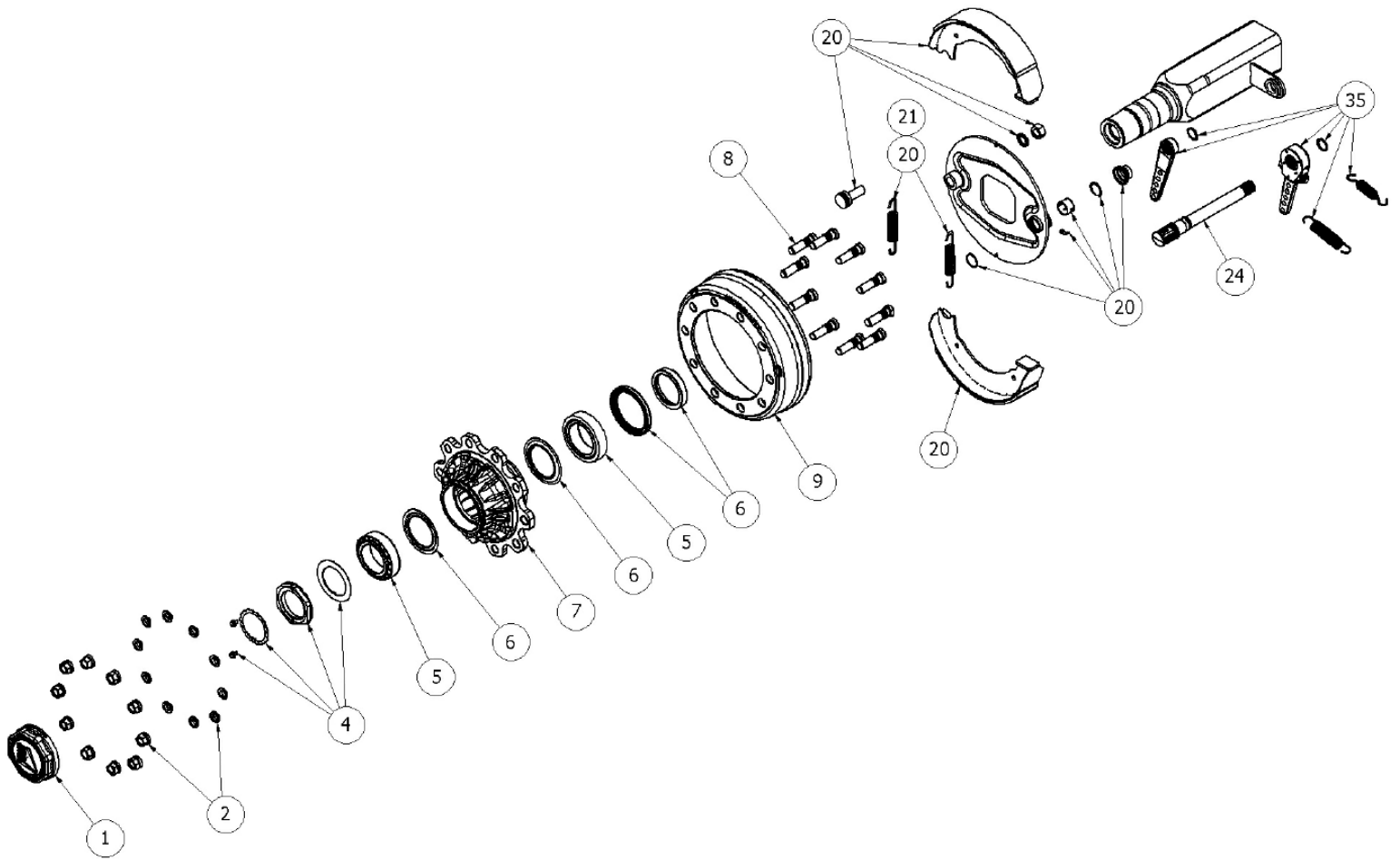
7415-1-05 ENDGATE

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	PR60047	Endgate	1		
2	PR60048	Endgate, Arm RH	1		
3	PR60049	Endgate, Arm LH	1		
4	PR60015	End Gate Pin	2		
5	PR60061	Flat Bar	2		
6	PR60013	Belting, Bottom, End Gate	1		
7	PR60014	Flat Bar, Backing, Bottom, End Gate	1		
8	PR60050	Belting, End Gate	2		
9	PR60051	Backing Bar, End Gate	2		
10	PR60011	Belting, End Gate Flap	1		
11	PR60012	Flat Bar, Backing, End Gate Flap	1		
12	STP-0020	Swivel Leveling Mount, Standoff. 2500lbs.	2		
101	BL-6-FW	3/8 USS FW ZC	40		
102	BL-6-SW	3/8 SAE FW ZC	6		
103	BL-6-125-H	3/8-16 X 1-1/4 HHCS G5 ZC	18		
104	BL-6-LN	3/8-16 FIN H LN NE A563 GA ZC	18		
105	BL-6-LW	3/8 SPLIT LW ZC	10		
106	BL-6-100-H	3/8-16 X 1 HH C/S BOLT G5 ZC	10		
107	BL-8-FW	1/2 USS FW ZC	8		
108	BL-8-150-C	1/2-13 X 1-1/2 CARRIAGE BOLT G5 ZC	8		
109	BL-8-LW	1/2 SPLIT LW ZC	8		
110	BL-8-N	1/2-13 HEX FIN NUTS ZC	8		
111	BL-10-SW-8	5/8 SAE FW G8	22		
112	BL-10-LW	5/8 SPLIT LW ZC	10		
113	BL-10-LN	5/8-11 HEX LN NE ZC	6		
114	BL-10-175-H8	5/8-11 X 1-3/4 HH G8 ZC	10		
115	BL-10-250-H-8	5/8-11 X 2-1/2 HH G8 ZC	6		
116	BL-8-300-H	1/2-13 X 3 HH C/S G5 ZC	2		
117	BL-8-LN	1/2-13 LN NYLON INSERT ZC	2		



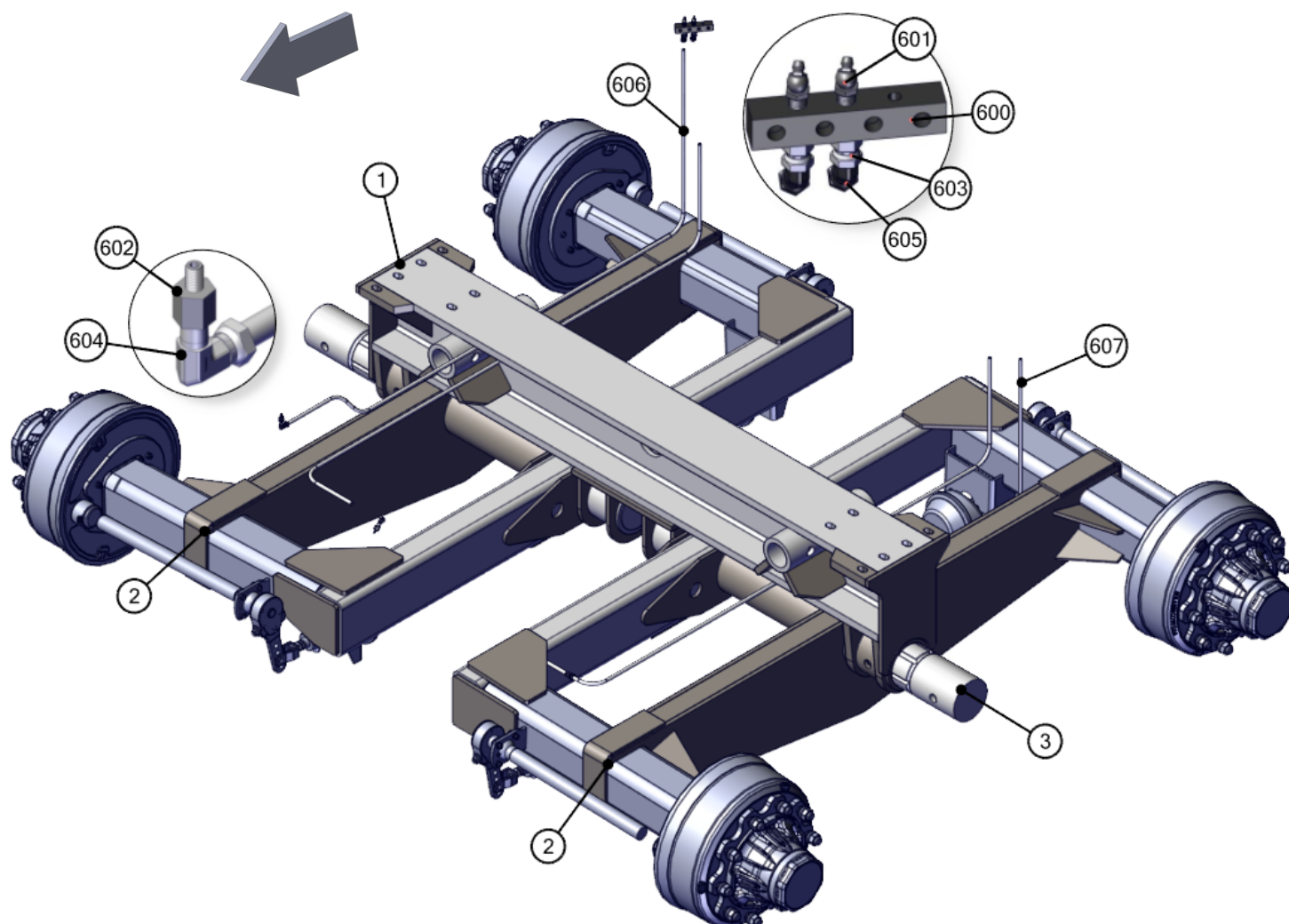
7421-1-06 ADR SQUARE AXLE

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	PR60124-A-1	Outer Cap & O-Ring	1		
2	PR60124-A-2	Lug Nuts & Washers (10 each)	1		
4	PR60124-A-4	Ring Nut Locking Kit (5 pieces)	1		
5	PR60124-A-5	Bearings, Front & Rear	1		
6	PR60124-A-6	Seal Kit (4 pieces)	1		
7	PR60124-A-7	Hub	1		
8	PR60124-A-8	Studs (10 pieces)	1		
9	PR60124-A-9	Drum	1		
20	PR60124-A-20	Brake Assembly, Includes Springs (2)	1		
21	PR60124-A-21	Replacement Springs (2)	0		
24	PR60124-A-24	Cam Shaft, 32 Teeth Module	1		
25	PR60124-A-25	Replacement Cam Shaft	0		
35	PR60124-A-35	Lever Parts (6 pieces)	1		



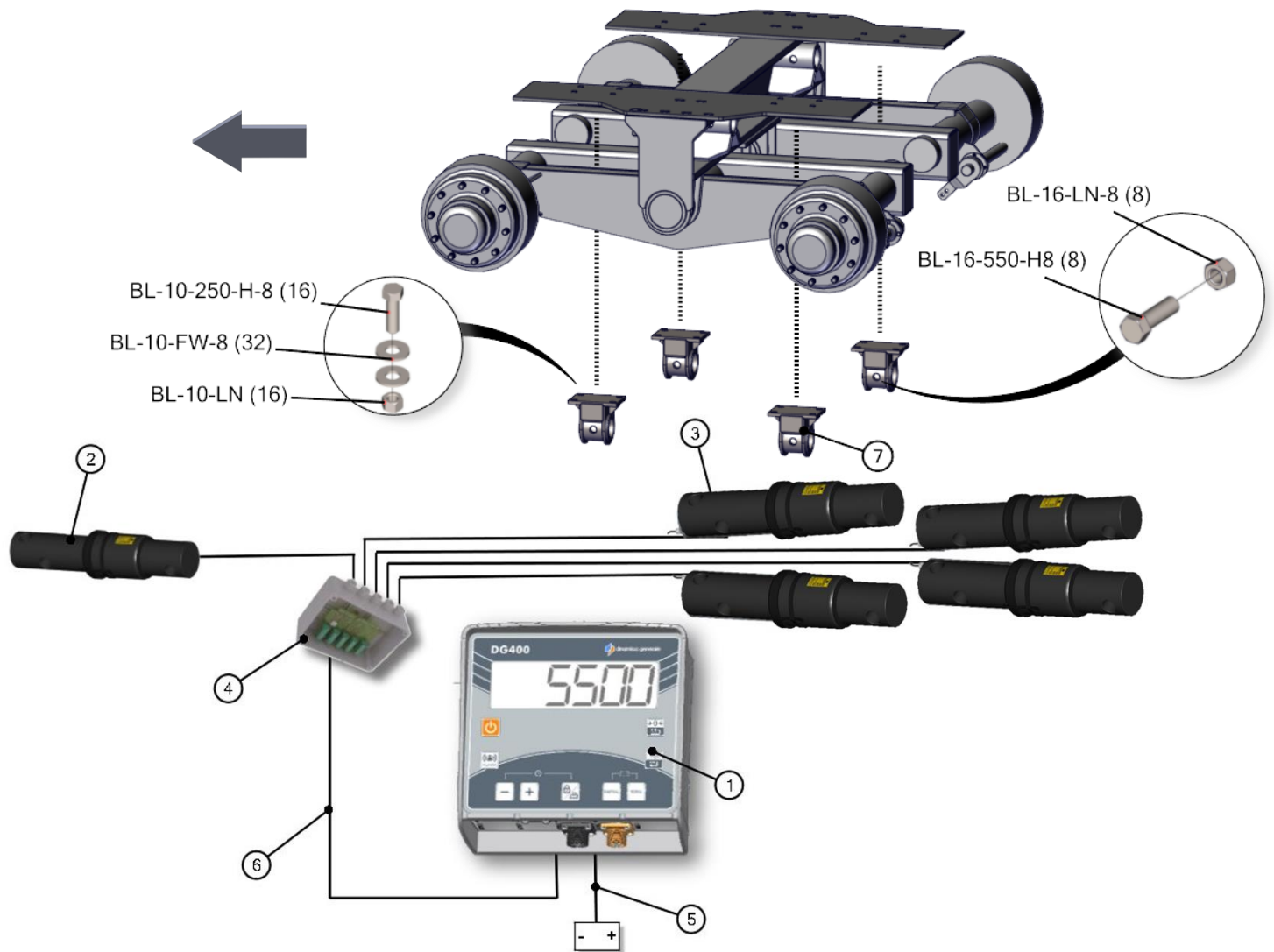
7421-1-07 WALKING BEAM, ADR AXLES

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	PR80088	Axle Frame, HP880	1		
2	PR80087	Rocker, Walking Beam, HP880	2		
3	PR80089	Shaft, Walking Beam Pivot	2		
101	BL-12-750-H8	3/4-10 X 7-1/2 HH G8	2		
102	BL-12-LN-8	3/4-10 LN w/ NYLON INSERTS G8	2		
103	BL-10-LN	5/8-11 HEX LN NE ZC	12		
104	BL-10-FW-8	5/8 FW G8	24		
105	BL-10-250-H-8	5/8-11 X 2-1/2 HH G8 ZC	12		
600	GF-4-4	4" Grease Manifold	1		
601	GF-1827-45	Grease Fitting 1/8 NPT 45-	4		
602	GFA-51942	1/4"-28 Straight Adapter	4		
603	A-1404-2-2	1/8 MP x 1/8 FPX	4		
604	A-1501-2-2	1/8" MP x 1/8" FPX90-	4		
605	A-1503-2-2	1/8" MP x 1/8" FPX 45-	4		
606	H2-140-2MP-2MP	1/8 in grease hose 1/8MP x 1/8MP x 140 in long	2		
607	H2-110-2MP-2MP	1/8 in grease hose 1/8MP x 1/8MP x 110 in long	2		



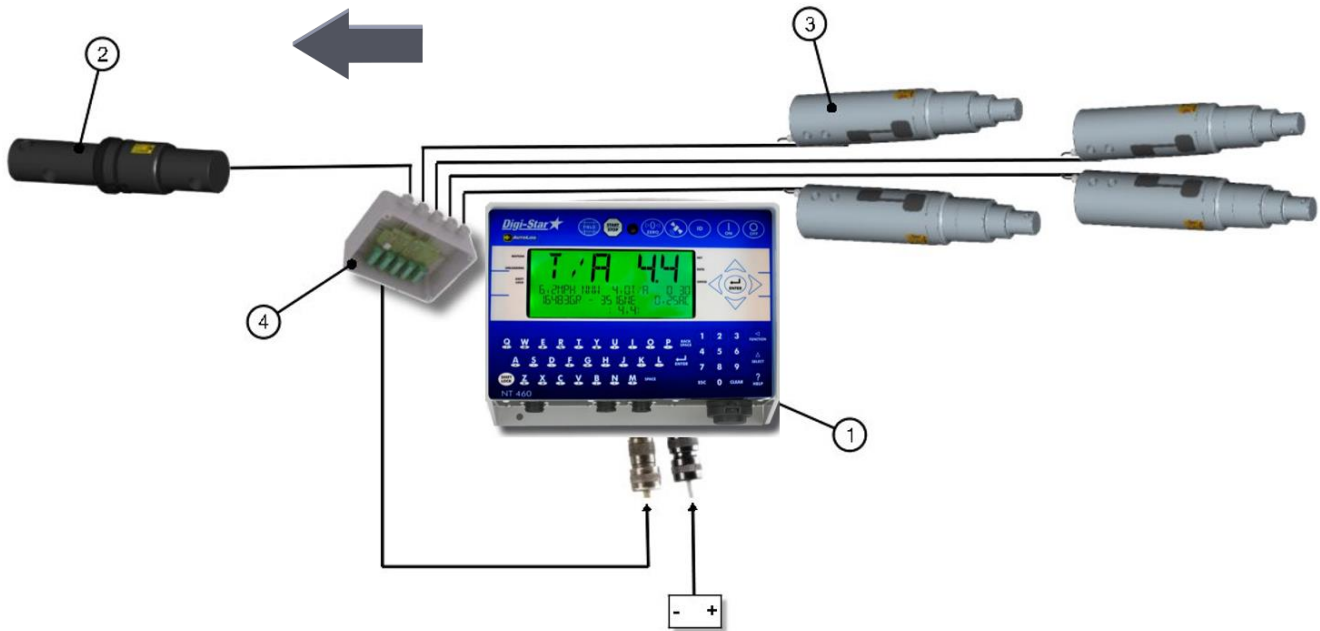
7421-1-07A WEIGHT SCALE SYSTEM, WALKING BEAM, DG400

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	SWS-1001	DG400 Slim Box w/ Isobus, Weigh Scale Display Module	1		
2	PR63101	Hitch Shaft, Hardened, Long	-1		
2	SWS-1007	Load Cell, Hitch, 2-7/8" Dia, HD	1		
3	SWS-1002	Load Cell, Axle, 2-7/8" Dia	4		
4	SWS-1004	J-Box, 6-9 Load Cells Plug Style	1		
5	SWS-1005	Power Cable, 16 ft w/ Ring Terminals	1		
6	SWS-1006	Sensor Cable, 22 ft w/ Connectors, J-Box to Scale Head	1		
7	PR80003	Mount, Load Cell, 1880VB	4		
100	BL-16-550-H8	1-8 X 5-1/2 BOLT HH C/S G8 ZC	8		
101	BL-16-LN-8	1 H LN ZC G8	8		
102	BL-10-FW-8	5/8 FW G8	32		
103	BL-10-250-H-8	5/8-11 X 2-1/2 HH G8 ZC	16		
104	BL-10-LN	5/8-11 HEX LN NE ZC	16		



7415-1-07B OPT. WEIGHT SCALE SYSTEM, NT460

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	SWS-4604-003	Indicator, W/AutoLog, NT460	1		
2	PR63101	Hitch Shaft, Hardened, Long	-1		
2	SWS-1007	Load Cell, Hitch, 2-7/8" Dia, HD	1		
3	SWS-1002	Load Cell, Axle, 2-7/8" Dia	4		
4	SWS-4605-003	J-Box 6 Pt	1		
5	SWS-4605-005	Power Cable 4- wire, 3m Cable	1		
6	SWS-4605-004	J Box Cable, 9m	1		
7	PR80003	Mount, Load Cell, 1880VB	4		
8	SWS-4604-006	Rail Mount, Monitor Mount	1		
9	SWS-4604-007	Sensor Shield, 1880vb, Sheet Steel	1		
10	SWS-404353	Indicator Mount, NT460, Bracket - EZ3 Plastic Rail	1		
11	SWS-403780	Indicator Mount, NT460, Bracket - SCR-#10 x 5/8 FHSTS Black ZP	1		
101	BL-16-550-H8	1-8 X 5-1/2 BOLT HH C/S G8 ZC	8		
102	BL-16-LN-8	1 H LN ZC G8	8		
103	BL-10-FW-8	5/8 FW G8	32		
104	BL-10-250-H-8	5/8-11 X 2-1/2 HH G8 ZC	16		
105	BL-10-LN	5/8-11 HEX LN NE ZC	16		
800	SWS-4605-001	Cell, dia 2.875 DB -21			
801	SWS-4605-002	Cell, dia 2.875 DB-21 HT			



7415-1-07C OPT. WEIGHT SCALE SYSTEM, 8000i

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	PR80003	Mount, Load Cell, 1880VB	4		
2	SWS-4613	Spreader Weigh System, 5 Point with 8000i	1		
2	PR63101	Hitch Shaft, Hardened, Long	-1		
3	HM-1893	Orbit Motor, Vertical Beater Apron Drive	-1		
3	HM-1894	Orbital Motor, Vertical Beater Apron Drive, Speed Sensor Option	1		
4	HVE-2500	Electronic Flow Control Valve	1		
5	PR70391	Mount, Junction Box, 800i	1		
6	PR70392	Bracket, PTO Sensor	1		
100	BL-16-550-H8	1-8 X 5-1/2 BOLT HH C/S G8 ZC	8		
101	BL-16-LN-8	1 H LN ZC G8	8		
102	BL-10-250-H-8	5/8-11 X 2-1/2 HH G8 ZC	16		
103	BL-10-FW-8	5/8 FW G8	32		
104	BL-10-LN	5/8-11 HEX LN NE ZC	16		
105	BL-M12-50	12mm - 1.75mm x50mm Long Hex Head Cap Screw, Gr. 5, Zinc	2		
800	SWS-4608-006	Load Cell Cable, 21" EZ-Mate	1		
801	SWS-4608-007	Junction Block, 6-Port EZ-Mate	1		
802	SWS-4605-005	Power Cable 4- wire, 3m Cable	4		

7421-1-08 TIRES AND WHEELS, 710/40-22.5

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	WHM-7122	710/40-22.5 Tire & Wheel Assy, 335mm BCD, Mounted, ADR	4		



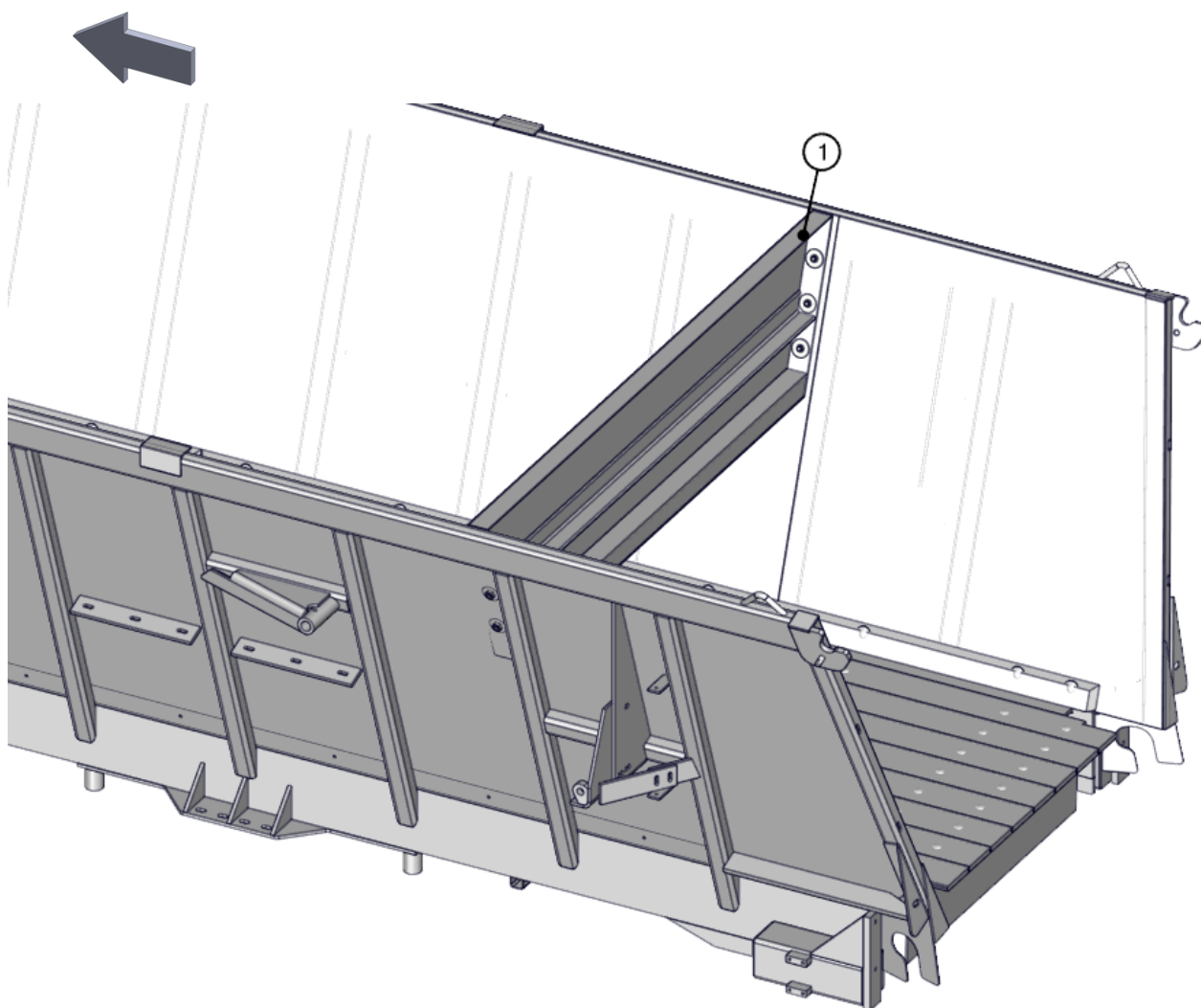
7421-1-08A OPT. TIRES AND WHEELS, 710/50-26.5

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	WHM-7120	710/50R-26.5 Tire & Wheel Assy, 335mm BCD, Mounted, ADR	4		



7415-1-09 OPT. METERING SHIELD

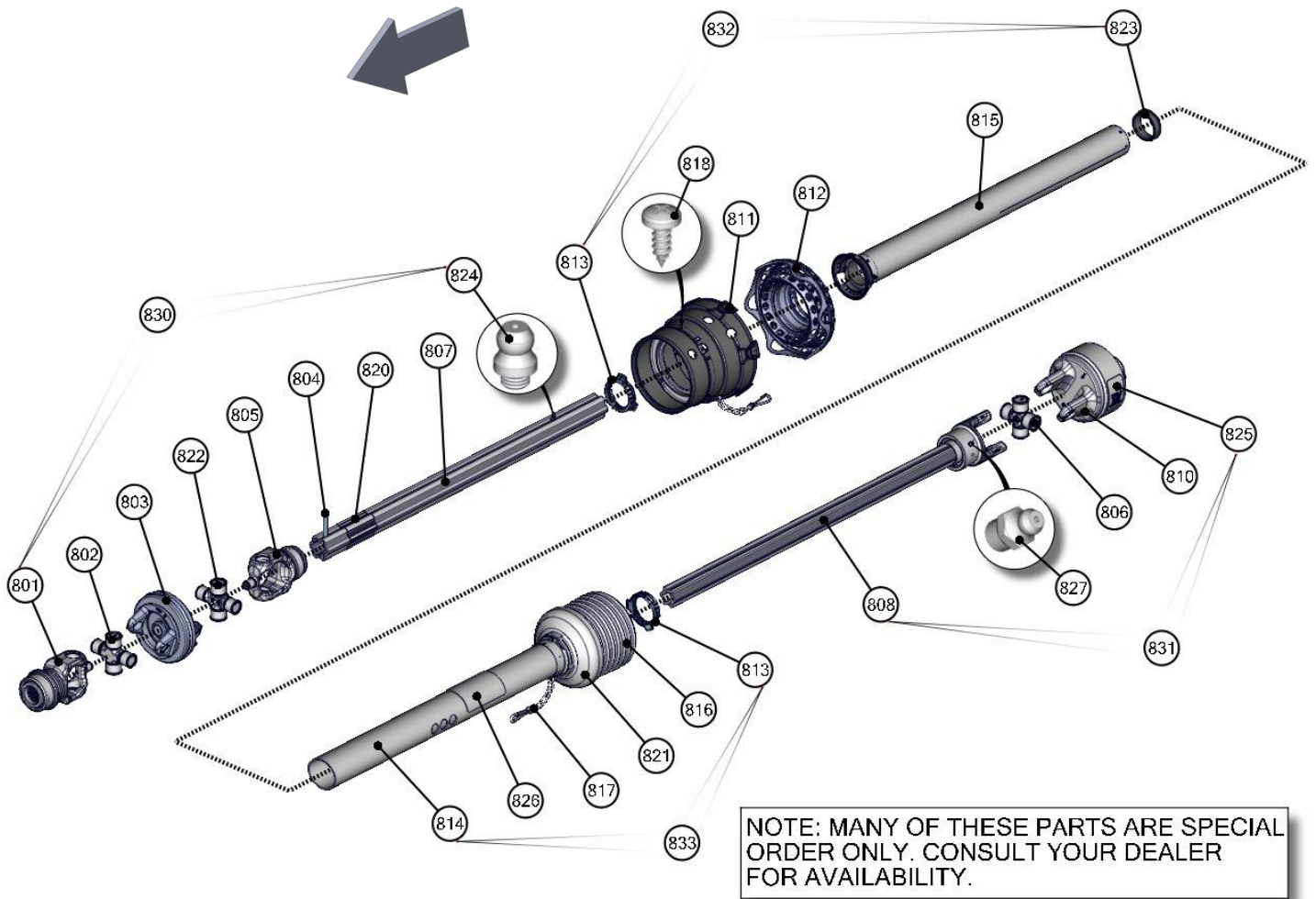
REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	PR60039	Metering Shield	1		
100	BL-10-200-H	5/8-11 X 2 HEX CAP G5 ZC	6		
101	BL-10-FW	5/8 USS FW ZC	12		
102	BL-10-LN	5/8-11 HEX LN NE ZC	6		



7415-2-01 FRONT DRIVELINE, 1000 RPM

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	PTS-1021	Driveline, 1-3/4-20 Spline, PWE580 HD Shaft	1	Replaces PTS-1020	Rev b starts with -74015006
801	PTS-1021A	Yoke, 1-3/4"-20 Spl. ASG	1		Special Order Only
802	PTS-1021B	Cross & Bearing Kit	1		Special Order Only
803	PTS-1005B	Double Yoke	1		Special Order Only
804	PTB-1014C	Spring Pin 10 X 75	1		Special Order Only
805	PTS-1021C	Inboard Yoke S5	1		Special Order Only
806	PTS-4001B	Extended Lube Cross & Bearing Kit	1	Walterscheid Yokes	Special Order Only
807	PTS-1021J	Outer Profile S5GL	1		Special Order Only
808	PTS-1021D	Overrunning Clutch & S4LGA Profile Assy	1		Special Order Only
810	PTS-1021E	Cut-Out Clutch	1		Special Order Only
811	PTS-1021K	CV Guard & Bearing Assy	1	Replaced with PTS-1005K	Special Order Only
812	PTS-1015M	Flex Net & Guard Assy	1		
813	PTS-1002J	PTO Shield Bearing Ring	2		Special Order Only
814	PTS-1021M	Guard Tube Outer	1		Special Order Only
815	PTS-1021N	Gurad Tube Inner	1		Special Order Only
816	PTS-1021F	Guard Cone 9 Rib	1		Special Order Only
817	PTS-1002K	PTO Shield Safety Chain	1		Special Order Only
818	PTS-1010K	Screw	8		Special Order Only
819	PTS-1010L	Decal, Outer	1		Special Order Only
820	PTS-1010M	Decal, Inner	1		Special Order Only
821	PTB-8100D	Reinforcing Collar	1		Special Order Only
822	PTS-1021G	Cross & Bearing Kit	1		Special Order Only
823	PTS-1021H	Support Bearing	1		Special Order Only
824	PTB-1014L	Zerk	1		Special Order Only
825	PTS-1009J	Decal	1		Special Order Only
826	PTS-1021P	Lubrication Decal	1	Replaced with PTS-1008Q	Special Order Only
827	PTS-1008C	Zerk, Double Yoke	1		Special Order Only
830	PTS-1021FH	Front Half Shaft, PTS-1021	1		Special Order Only
831	PTS-1021RH	Rear Half Shaft, PTS-1021	1		Special Order Only
832	PTS-1021FS	Inner Guard Kit	1		Special Order Only
833	PTS-1021RS	Outer Guard Kit	1		Special Order Only
834	PTS-1008R	ASG Collar Kit	1		Special Order Only
835	PTS-1009K	CC Lock Assembly	1		Special Order Only

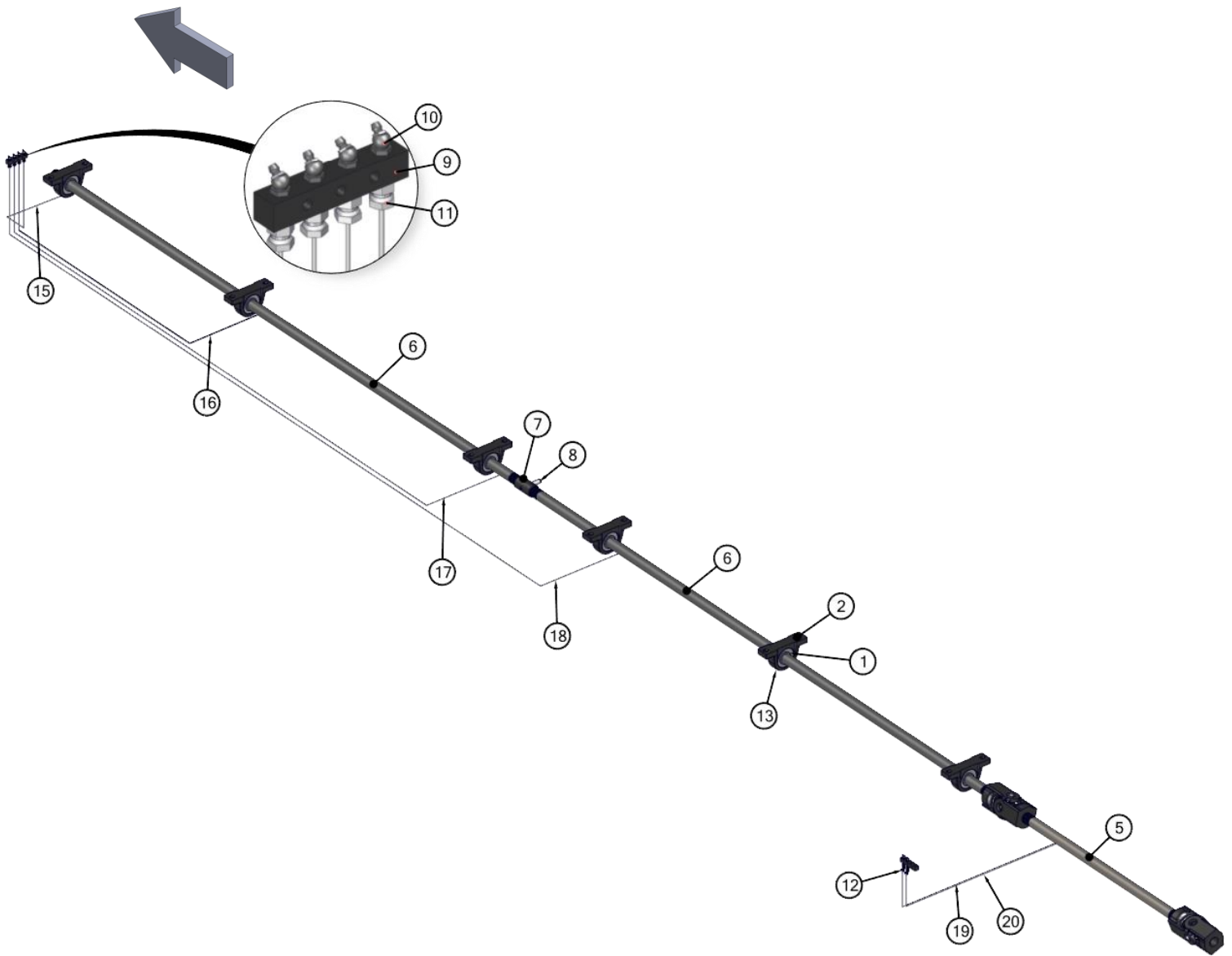
7415-2-01 FRONT DRIVELINE, 1000 RPM



7415-2-02 MAIN DRIVE SHAFT

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	BR-175-100	Heavy Duty 1 1/2" Bearing	6		
2	BR-100-RAK	Bearing Housing 100 mm	6		
3	PTS-1018	Yoke Assembly 1-3/4-20 1Slip,1 Lock	1		
4	PTS-1019	Yoke Assembly, 1-3/4-20,1-3/4-6 Both Lock	1		
5	PR60401	Rear Drive Shaft	1		
6	PR60402	Main Drive Shaft, HR880, HP880, HP900	2		
7	PR60404	Coupler, 1.75 x 20 Spline, 12/24 Pitch, P.A. 30-	1		
8	PIN-4-36	Roll Pin 1/4" x 2.25"	1		
9	GF-4-4	4" Grease Manifold	2		
10	GF-1827-45	Grease Fitting 1/8 NPT 45-	6		
11	A-1404-2-2	1/8 MP x 1/8 FPX	6		
12	A-1503-2-2	1/8" MP x 1/8" FPX 45-	2		
13	GFA-51942	1/4"-28 Straight Adapter	6		
14	A-1501-2-2	1/8" MP x 1/8" FPX90-	6		
15	H2-29-2MP-2MP	1/8" Hose 1/8MP x 1/8MP x 29" L	1		
16	H2-110-2MP-2MP	1/8" Hose 1/8MP x 1/8MP x 110" L	1		
17	H2-130-2MP-2MP	1/8" Hose 1/8MP x 1/8MP x 130" L	1		
18	H2-160-2MP-2MP	1/8" Hose 1/8MP x 1/8MP x 160" L	1		
19	H2-62-2MP-2MP	1/8" Hose 1/8MP x 1/8MP x 62" L	1		
20	H2-70-2MP-2MP	1/8" Hose 1/8MP x 1/8MP x 70" L	1		
101	BL-4-150-H	1/4-20 X 1-1/2 HEX CAP G5 ZC	2		
102	BL-4-200-H	1/4-20 X 2 HH C/S G5 ZC	2		
103	BL-4-FW	1/4 USS FW ZC	8		
104	BL-4-LN	1/4-20 HEX LN NE ZC	4		
105	BL-10-250-H	5/8-11 X 2-1/2 HH C/S G5 ZC	12		
106	BL-10-SW	5/8 SAE FW ZC	24		
107	BL-10-LN	5/8-11 HEX LN NE ZC	12		

7415-2-02 MAIN DRIVE SHAFT

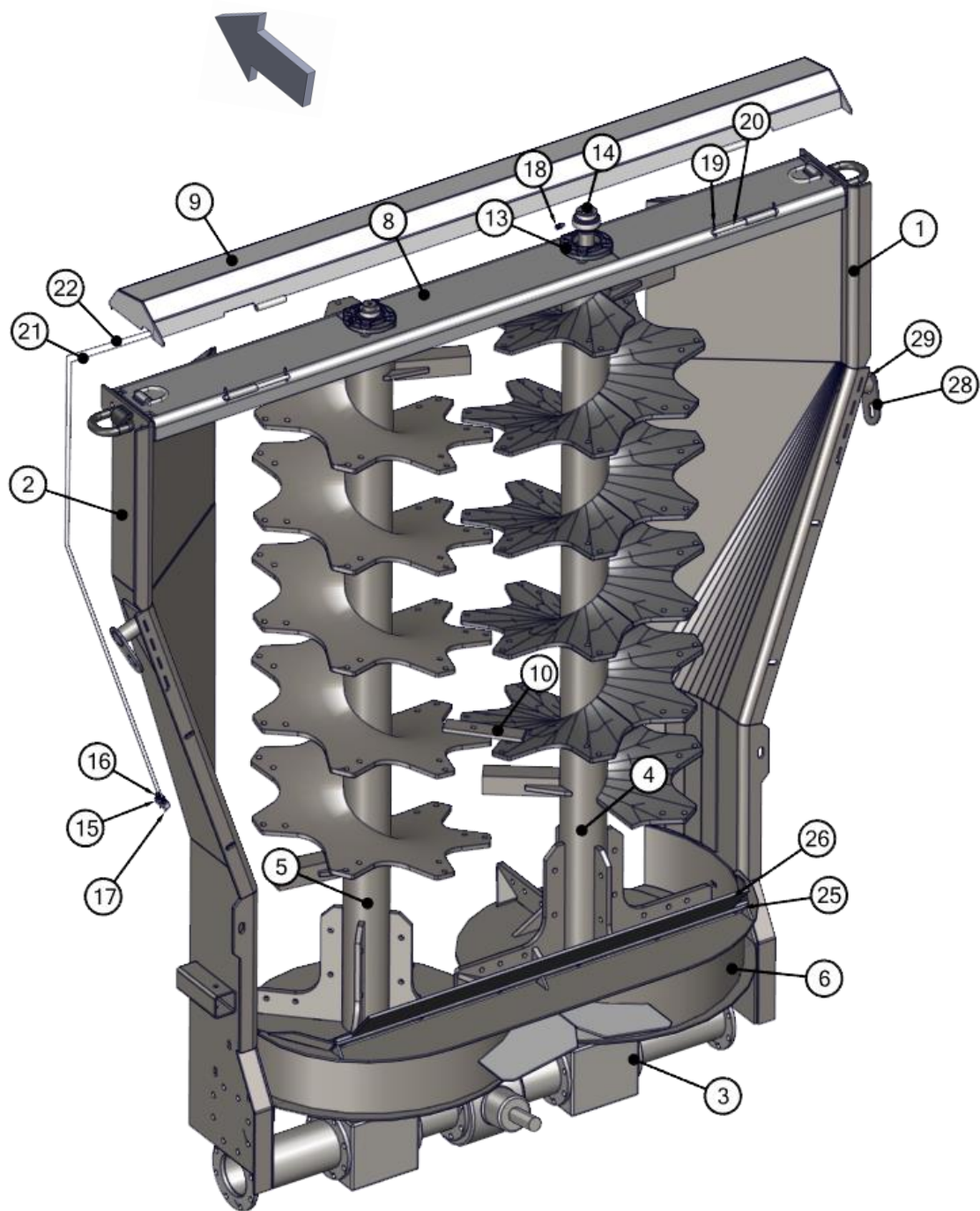


7421-2-03 VERTICAL BEATERS

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	PR70537	Beater Panel, LH	1		
2	PR70538	Beater Panel, RH	1		
3	VTB-1893-A1	1000 RPM Beater Gearbox	1		
4	VTB-0070	Beater, LH, HP880, 4 Spinner Blades	1		
5	VTB-0071	Beater, RH, HP880, 4 Spinner Blades	1		
6	PR70539	Spinner Pan, Vertical Beater	1		
8	PR63502	Top Bearing Plate, V-Box Spreader	1		
9	PR63506	Top Bearing Cover	1		
10	VTB-1899-F3	Knife, Universal All Models, Weight Specific	56		
11	VTB-1899-B3	Claw/Blade, Left Beater From Rear	10		
12	VTB-1899-C3	Claw/Blade, Right Beater From Rear	10		
13	BR-085-4PF	85mm Four Bolt Piloted Flange Housing	2		
14	BR-175-085-I	Bearing, 1 1/2" ID, TS	2		
15	GF-2-2	2" Grease Manifold	1		
16	GF-1827-45	Grease Fitting 1/8 NPT 45-	2		
17	A-1503-2-2	1/8" MP x 1/8" FPX 45°	2		
18	A-1404-2-2	1/8 MP x 1/8 FPX	2		
19	PR70133	Hinge Pin, 1/2" x 9"	2		
20	PIN-C2-16	Cotter Pin, 1/8" x 1"	4		
21	H2-107-2MP-2MP	1/8" Hose x 1/8MP x 1/8MP 107" L	1		
22	H2-138-2MP-2MP	1/8in Hose x 1/8MP x 1/8MP x 138in Long	1		
23	PR50502	Shim, Bottom Panel under Gearbox	1		
25	PR70540	Belting Bar	1		
26	PR70534	Belting	1		
27	HP-1038	Gear Lube, 80W90 @ Quart	11		
28	PR63505	Plate, Safety Lock, Remov Beaters	2		
29	PIN-250L	1/4" Lynch Pin	2		
101	BL-6-125-C	3/8-16 X 1-1/4 CARRIAGE BOLT G5 ZC	10		
102	BL-6-FW	3/8 USS FW ZC	18		
103	BL-6-LW	3/8 SPLIT LW ZC	10		
104	BL-6-N	3/8-16 HEX NUT ZC	10		
105	BL-7-125-HH	7/16-14 X 1-1/4 HH G5 ZC	8		
106	BL-7-SW	7/16 SAE FW ZC	8		
107	BL-7-LW	7/16 SPLIT LW ZC	8		
108	BL-8-150-C	1/2-13 X 1-1/2 CARRIAGE BOLT G5 ZC	14		
109	BL-8-250-C	1/2-13 X 2-1/2 CARRIAGE BOLT G5 ZC	4		
110	BL-8-FW	1/2 USS FW ZC	18		

7421-2-03 VERTICAL BEATERS

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
111	BL-8-LW	1/2 SPLIT LW ZC	18		
112	BL-8-N	1/2-13 HEX FIN NUTS ZC	18		
113	BL-9-200-H8	9/16-12 X 2 HH G8	16		
114	BL-9-FW-8	9/16 FW G8	32		
115	BL-9-LN	9/16-12 LN w/ NYLON INSERT	16		
116	BL-10-200-H	5/8-11 X 2 HEX CAP G5 ZC	4		
117	BL-10-200-H8	5/8-11 X 2 HEX CAP G8 ZC	116		
118	BL-10-FW-8	5/8 FW G8	16		
119	BL-10-LN	5/8-11 HEX LN NE ZC	8		
120	BL-12-200-8	3/4-10 X 2 HH C/S G8 ZC	2		
121	BL-12-FW-8	3/4 FW G8	4		
122	BL-12-LN-8	3/4-10 LN w/ NYLON INSERTS G8	2		
123	BL-10-175-H8	5/8-11 X 1-3/4 HH G8 ZC	40		
124	BL-10-SW	5/8 SAE FW ZC	12		
125	BL-10-LNS	5/8-11 STOVER LN	152		
126	BL-6-125-H	3/8-16 X 1-1/4 HHCS G5 ZC	4		
127	BL-6-LN	3/8-16 FIN H LN NE A563 GA ZC	4		
128	BL-4-175-H	1/4-20 X 1-3/4 HH C/S G5 ZC	1		
129	BL-4-FW	1/4 USS FW ZC	2		
130	BL-4-LN	1/4-20 HEX LN NE ZC	1		

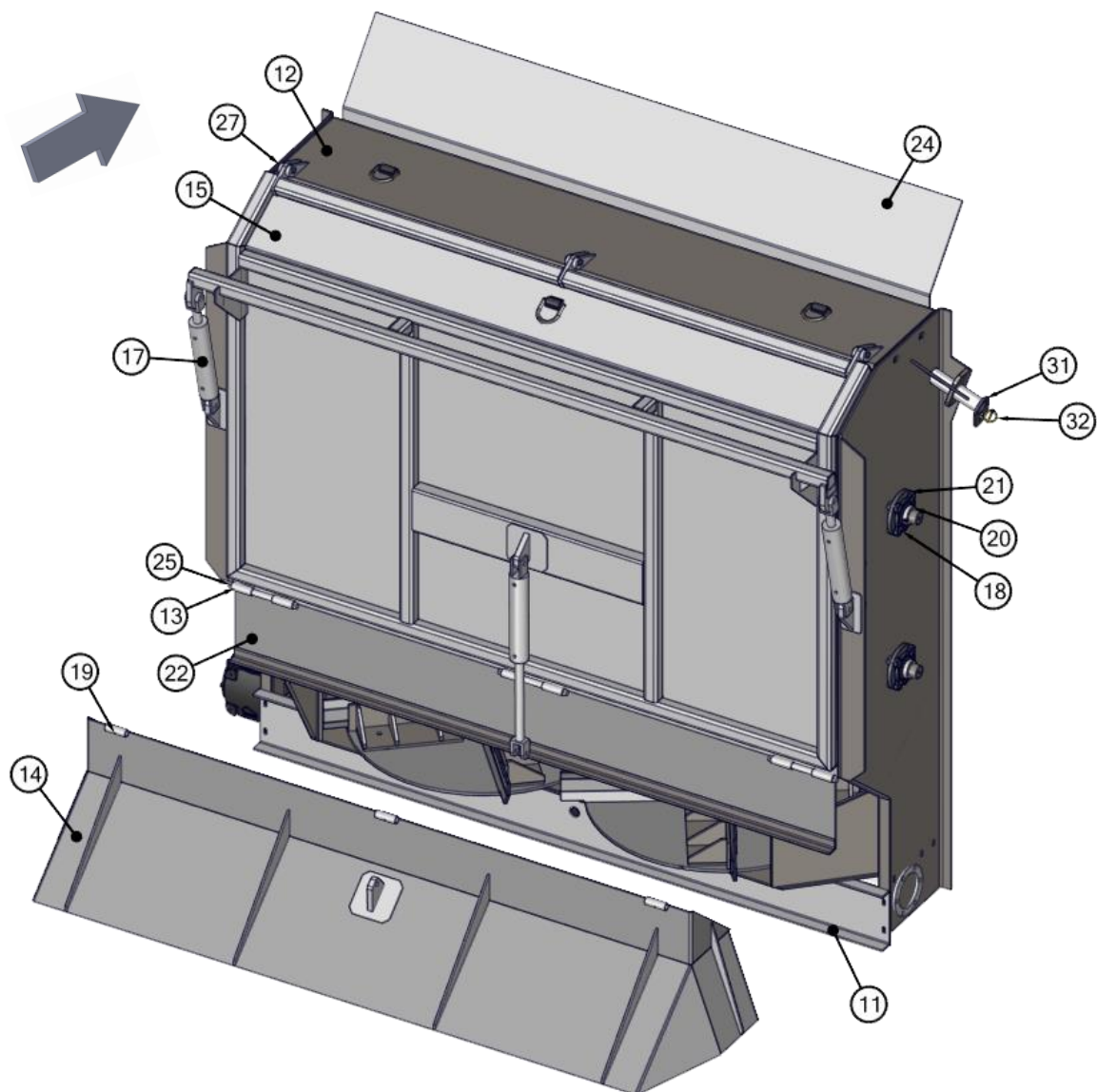


7421-2-03A OPTIONAL COMPOST BEATERS, HYDRAULIC PANELS

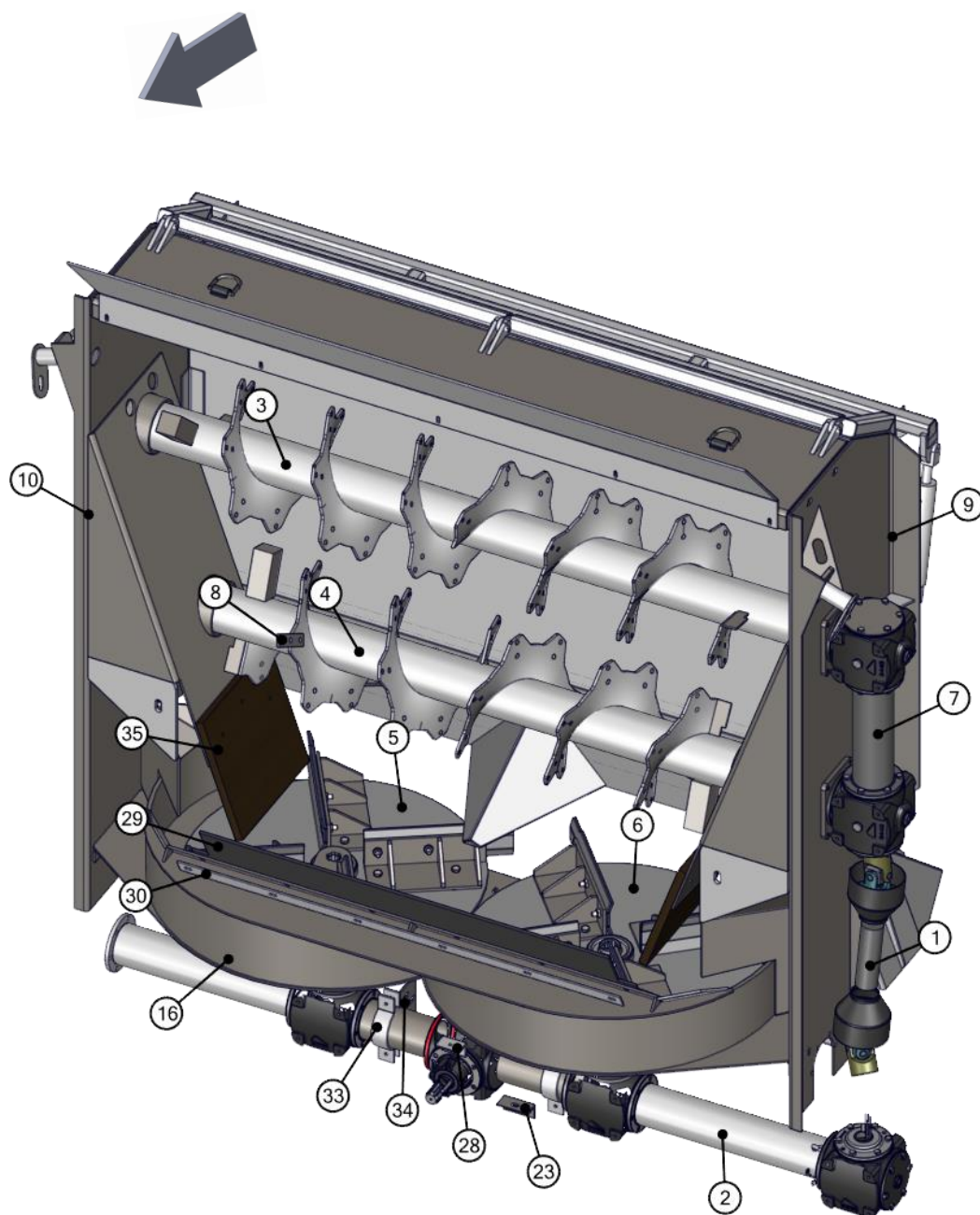
REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	VTB-CMP-2200-H	PTO Shaft, Side	1		
2	VTB-CMP-2112	Bottom Gearbox, 2305mm, 910mm Spinner Centers	1		
3	VTB-CMP-2104	Horiz. Beater, Top	1		
4	VTB-CMP-2105	Horiz. Beater, Bottom	1		
5	VTB-CMP-2200-F	Spinner Plate Assy, RH, 910mm Gbx	1		
6	VTB-CMP-2200-E	Spinner Plate Assy, LH, 910mm Gbx	1		
7	VTB-CMP-2200-C	Side Gearbox, Beaters	1		
8	VTB-0047	Knife, Horiz. Comp. Beater	66		
9	PR60157	Beater Panel, LH	1		
10	PR60158	Beater Panel, RH	1		
11	PR70311	Gear Box Support	1		
12	PR60159	Top Plate	1		
13	PR63535	Latch Pin	3		
14	PR70298	Adjustable Panel	1		
15	PR70297	Back Panel Hyd Lift, Hyd. Fence Rower	1		
16	PR60160	Spinner Pan, Compost	1		
17	HC-150-1004	Welded Cylinder, 1.5", 10" Stroke	3		
18	GF-1827	Grease Fitting 1/8 NPT Straight	2		
19	GF-1428	Grease Fitting 1/4" x 28 straight	3		
20	BR-175-085-I	Bearing, 1 1/2" ID, TS	2		
21	BR-085-4PF	85mm Four Bolt Piloted Flange Housing	2		
22	PR70607	Diverter Panel, Compost	1		
23	PR70434	Pan Support	1		
24	PR70260	880 Divert Shield	1		
25	PIN-C3-24	Cotter Pin 3/16 x 1 1/2"	15		
26	HA-1031	Hydraulic Hose Holder 3/8	4		
27	PIN-10-28	Clevis Pin, 5/8" Dia, 1.75" usable	9		
28	PR63525-D	Angle	1		
29	PR70534	Belting	1		
30	PR70540	Belting Bar	1		
31	PR63505	Plate, Safety Lock, Remov Beaters	2		
32	PIN-250L	1/4" Lynch Pin	2		
33	PR70312	Strap	2		
34	PR70349	Gearbox Support Bracket, Compost	2		
35	PR70261	Guide	2		
100	BL-6-N	3/8-16 HEX NUT ZC	44		
101	BL-6-LW	3/8 SPLIT LW ZC	44		
102	BL-6-LN	3/8-16 FIN H LN NE A563 GA ZC	4		
103	BL-6-FW	3/8 USS FW ZC	52		
104	BL-6-125-H	3/8-16 X 1-1/4 HHCS G5 ZC	4		

7421-2-03A OPTIONAL COMPOST BEATERS, HYDRAULIC PANELS

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
105	BL-6-125-C	3/8-16 X 1-1/4 CARRIAGE BOLT G5 ZC	38		
106	BL-12-SW	3/4 SAE FW	4		
107	BL-12-225-H-8	3/4-10 X 2-1/4 HH C/S G8	2		
108	BL-12-LN	3/4-10 LN w/ NYLON INSERTS	2		
109	BL-9-150-H8	9/16-12 X 1 1/2 HEX CAP G8 ZC	132		
110	BL-9-LNS	9/16"-12, STOVER LN	132		
111	BL-6-200-C	3/8-16 X 2 CARRIAGE BOLT G5 ZC	6		
112	BL-W10-500-SC	#10 x 1/2" Self Tapping Screw	2		



7421-2-03A OPTIONAL COMPOST BEATERS, HYDRAULIC PANELS

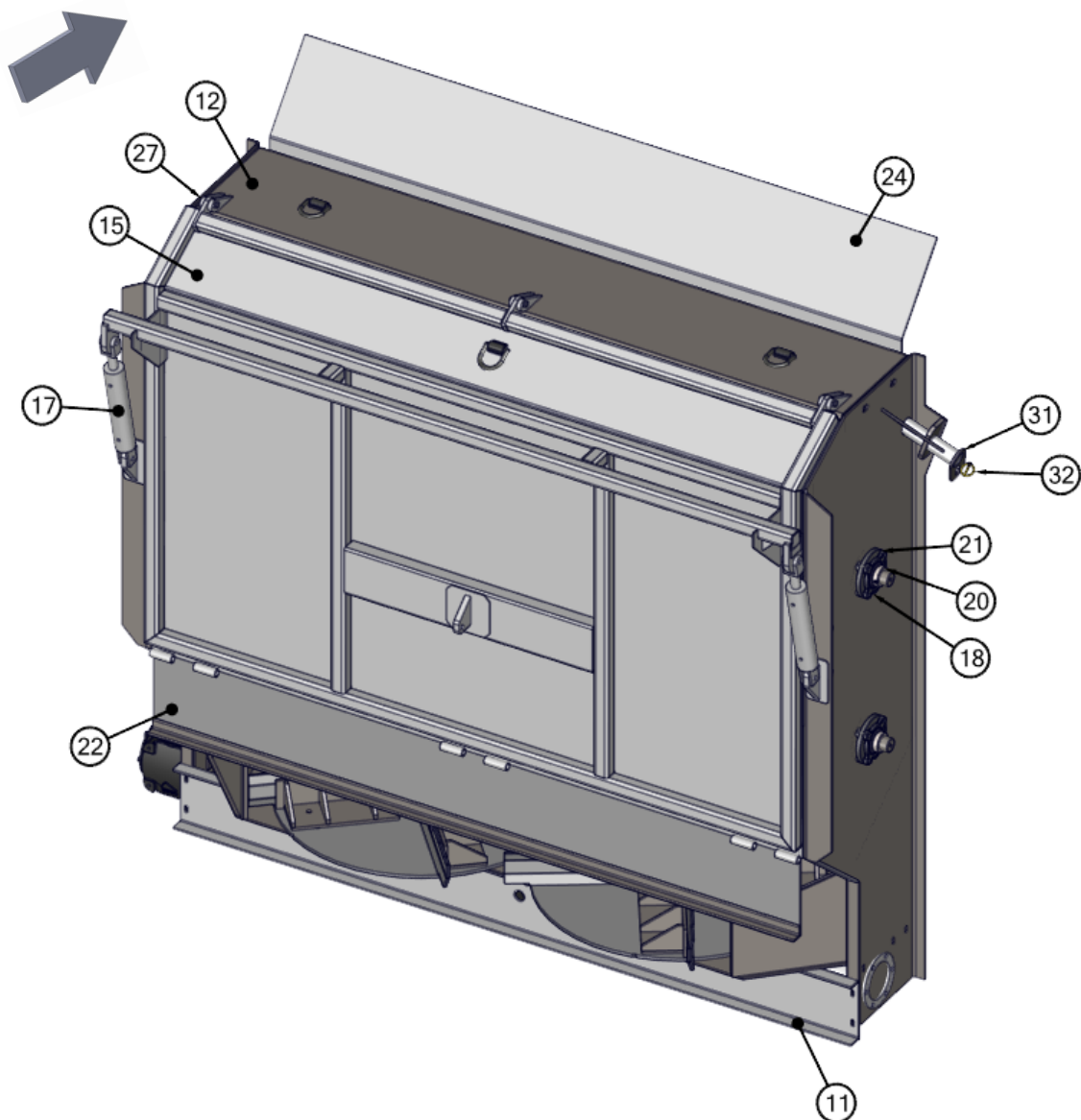


7421-2-03B OPTIONAL COMPOST BEATERS WITHOUT PANEL

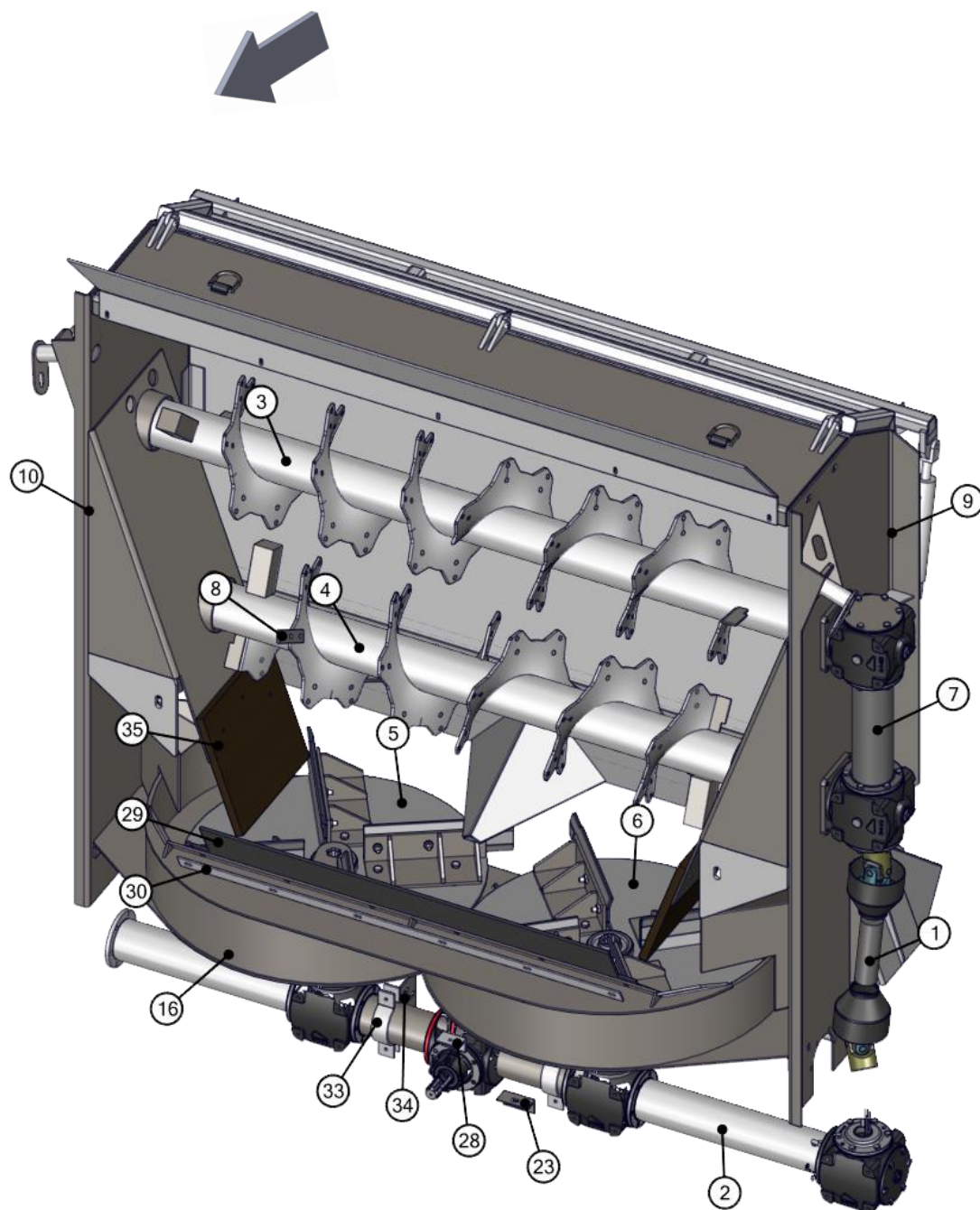
REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	VTB-CMP-2200-H	PTO Shaft, Side	1		
2	VTB-CMP-2112	Bottom Gearbox, 2305mm, 910mm Spinner Centers	1		
3	VTB-CMP-2104	Horiz. Beater, Top	1		
4	VTB-CMP-2105	Horiz. Beater, Bottom	1		
5	VTB-CMP-2200-F	Spinner Plate Assy, RH, 910mm Gbx	1		
6	VTB-CMP-2200-E	Spinner Plate Assy, LH, 910mm Gbx	1		
7	VTB-CMP-2200-C	Side Gearbox, Beaters	1		
8	VTB-0047	Knife, Horiz. Comp. Beater	66		
9	PR60157	Beater Panel, LH	1		
10	PR60158	Beater Panel, RH	1		
11	PR70311	Gear Box Support	1		
12	PR60159	Top Plate	1		
15	PR70297	Back Panel Hyd Lift, Hyd. Fence Rower	1		
16	PR60160	Spinner Pan, Compost	1		
17	HC-150-1004	Welded Cylinder, 1.5", 10" Stroke	2		
18	GF-1827	Grease Fitting 1/8 NPT Straight	2		
20	BR-175-085-I	Bearing, 1 1/2" ID, TS	2		
21	BR-085-4PF	85mm Four Bolt Piloted Flange Housing	2		
22	PR70607	Diverter Panel, Compost	1		
23	PR70434	Pan Support	1		
24	PR70260	880 Divert Shield	1		
25	PIN-C3-24	Cotter Pin 3/16 x 1 1/2"	7		
26	HA-1031	Hydraulic Hose Holder 3/8	4		
27	PIN-10-28	Clevis Pin, 5/8" Dia, 1.75" usable	7		
28	PR63525-D	Angle	1		
29	PR70534	Belting	1		
30	PR70540	Belting Bar	1		
31	PR63505	Plate, Safety Lock, Remov Beaters	2		
32	PIN-250L	1/4" Lynch Pin	2		
33	PR70312	Strap	2		
34	PR70349	Gearbox Support Bracket, Compost	2		
35	PR70261	Guide	2		
100	BL-6-N	3/8-16 HEX NUT ZC	44		
101	BL-6-LW	3/8 SPLIT LW ZC	44		
102	BL-6-LN	3/8-16 FIN H LN NE A563 GA ZC	4		
103	BL-6-FW	3/8 USS FW ZC	52		
104	BL-6-125-H	3/8-16 X 1-1/4 HHCS G5 ZC	4		

7421-2-03B OPTIONAL COMPOST BEATERS WITHOUT PANEL

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
105	BL-6-125-C	3/8-16 X 1-1/4 CARRIAGE BOLT G5 ZC	38		
106	BL-12-SW	3/4 SAE FW	4		
107	BL-12-225-H-8	3/4-10 X 2-1/4 HH C/S G8	2		
108	BL-12-LN	3/4-10 LN w/ NYLON INSERTS	2		
109	BL-9-150-H8	9/16-12 X 1 1/2 HEX CAP G8 ZC	132		
110	BL-9-LNS	9/16"-12, STOVER LN	132		
111	BL-6-200-C	3/8-16 X 2 CARRIAGE BOLT G5 ZC	6		
112	BL-W10-500-SC	#10 x 1/2" Self Tapping Screw	2		

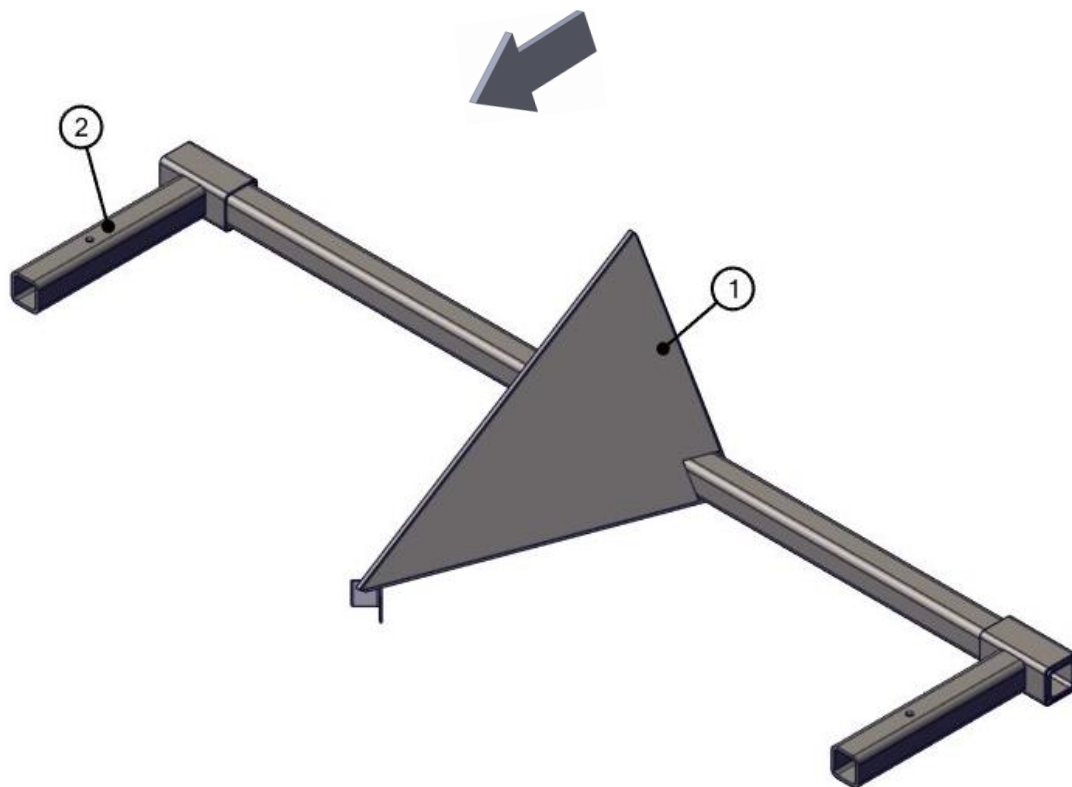


7421-2-03B OPTIONAL COMPOST BEATERS WITHOUT PANEL



7421-2-03C LITTER SPLITTER ATTACHMENT

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	PR70535	Deflector Weldment	1		
2	PR70536	Adjuster	2		
100	BL-8-150-SHSS	1/2-13 X 1-1/2 Sq Head Set Screw	4		
101	BL-8-400-H8	1/2-13 X 4 HH BOLT G8	2		
102	BL-8-FW	1/2 USS FW ZC	4		
103	BL-8-LN	1/2-13 LN NYLON INSERT ZC	2		

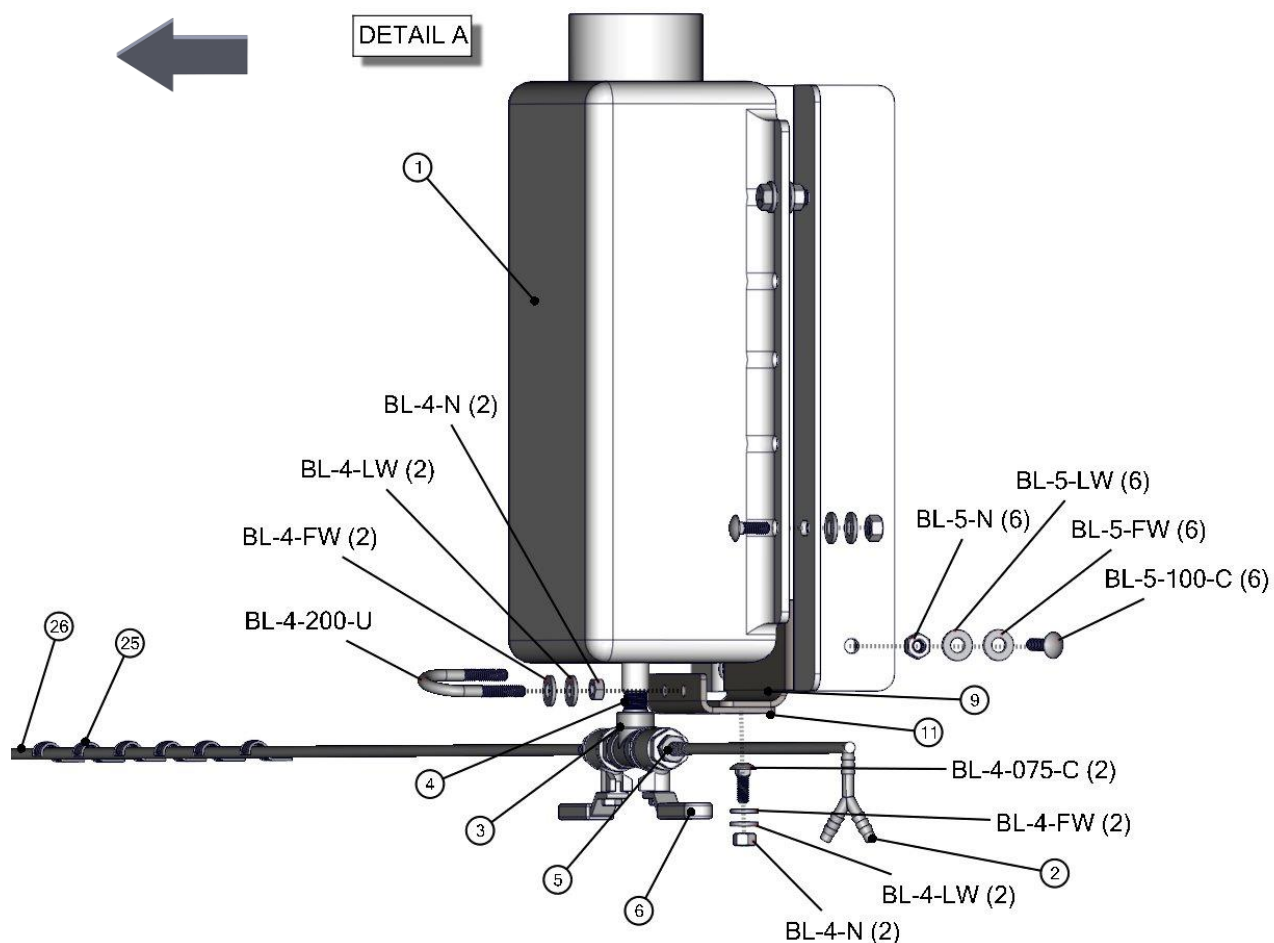


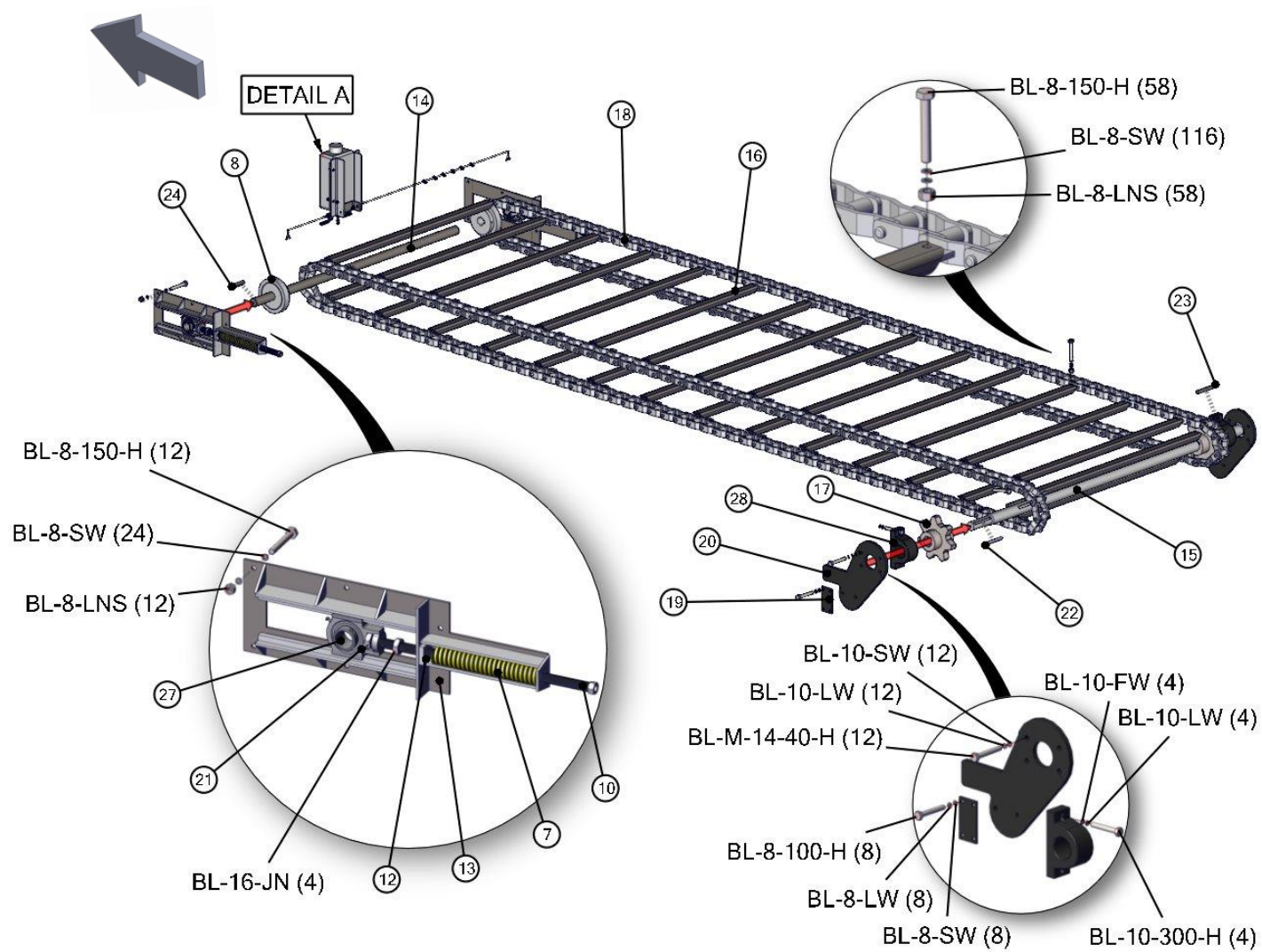
7419-2-04 WEB CHAIN DRIVE

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	VPA-NVE-36001	5 Quart Reservoir with Black Cap, NVE Style	1		
2	AYN-4-4-4	1/4" x 1/4" x 1/4" White Nylon Hose Barb Wye	2		
3	ATB-4-4-4	3/8 x 3/8 x 3/8 Brass Tee	1		
4	AN-4-CLB	1/4" NPT Close Nipple, Brass	2		
4	AN-4-CLB-H	1/4" NPT Close Nipple, Brass, With Hex Center	1		
5	A-4124-4-4	1/4 Male Pipe x 1/4 Push Loc	2		
6	VLV-025-B	1/4" Brass Ball Valve	2		
7	SPRG-1200-EH	Spring, Extra Heavy 2" Hole Dia., 1" Rod x 12" Long	2		
8	RLR-0030	Spreader Chain Roller	2		
9	PR70330	Chain Oil System Bracket	1		
10	PR70319	Tension Bolt, Chain Spreader	2		
11	PR70316	Chain Oil System Bracket	1		
12	PR70313	Machined Nut	2		
14	PR63015	Chain Shaft, Front Idler	1		
15	PR60040	Shaft, Apron Chain, Dual Drive	1		
16	PR60419	Flight, Mill Chain, Angle	0		
16	PR60420	Flight Mill Chain, Tub center on Chain	37		
17	PR60424	Drive Spocket, WH124 Pintle Chain, 2 Pc Sprocket, 2 1/2" Bore, 5/8 Keyway	2		
18	PR60422	Pull Chain, Pintle WH124 Style, SS pin, Tab Center of Link	2		
18	PR60415	Pull Chain, Right Hand Side, Pintle Style	0		
18	PR60416	Pull Chain, Left Hand Side, Pintle Style	0		
19	PR60068	Mount, Torque Plate, Gearbox	2		
20	PR60066	Torque Plate, Gearbox	2		
21	PIN-4-36	Roll Pin 1/4" x 2.25"	2		
22	KEY-8-8-86-HCS	Shaft Key, 1/2" x 1/2" x 5.375" Long, Plain 1095 High Carbon Steel	2		
23	KEY-10-10-550-HCS	Shaft Key, 5/8 in x 5/8 in x 5.50 in Long, Plain 1095 High Carbon Steel	2		
24	KEY-10-10-300-HCS	Shaft Key 5/8" x 5/8" x 3" Square Cut, Plain 1095 High Carbon Steel	2		
25	HA-1031	Hydraulic Hose Holder 3/8	6		
26	H4-PL	Push Loc Hose 1/4" @ ft	12		
27	BRG-32-TU	Bearing, Takeup, 5/8" Keyway, 2.00" Shaft	2		
28	BR-250-HD	Heavy Duty 2-1/2" Brg Assy, W/Pillow Block	2		
29	PR63014	Flat Bar	2		
100	BL-8-150-H8	1/2 X 1-1/2 HH G8	74		
101	BL-8-SW	1/2 SAE FW ZC	156		
102	BL-8-LN	1/2-13 LN NYLON INSERT ZC	74		
103	BL-8-175-H	1/2-13 X 1-3/4 HH G5 ZC	8		
104	BL-8-LW	1/2 SPLIT LW ZC	8		

7419-2-04 WEB CHAIN DRIVE

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
105	BL-10-250-H-8	5/8-11 X 2-1/2 HH G8 ZC	4		
106	BL-10-LW	5/8 SPLIT LW ZC	4		
107	BL-10-SW	5/8 SAE FW ZC	4		
108	BL-16-JN	1-8 JAM NUT HEX Gr 5 YZ	2		
109	BL-4-075-C	1/4 UNC X 1/2 CARRIAGE BOLT G5 ZC	2		
110	BL-4-200-U	1/4" U Bolt 1 1/8" wide 2" long	1		
111	BL-4-FW	1/4 USS FW ZC	4		
112	BL-4-LN	1/4-20 HEX LN NE ZC	2		
113	BL-4-LW	1/4 SPLIT LW ZC	2		
114	BL-4-N	1/4-20 HEX FIN NUT ZC	2		
115	BL-5-100-H	5/16 UNC X 1 HH C/S BOLT GR5 ZINC	6		
116	BL-5-FW	5/16 USS FW ZC	12		
117	BL-5-LN	5/16-18 HEX LN NE ZC	6		
118	BL-6-050-SC	3/8-16 x 1/2" Knurled Point Set Screw	2		

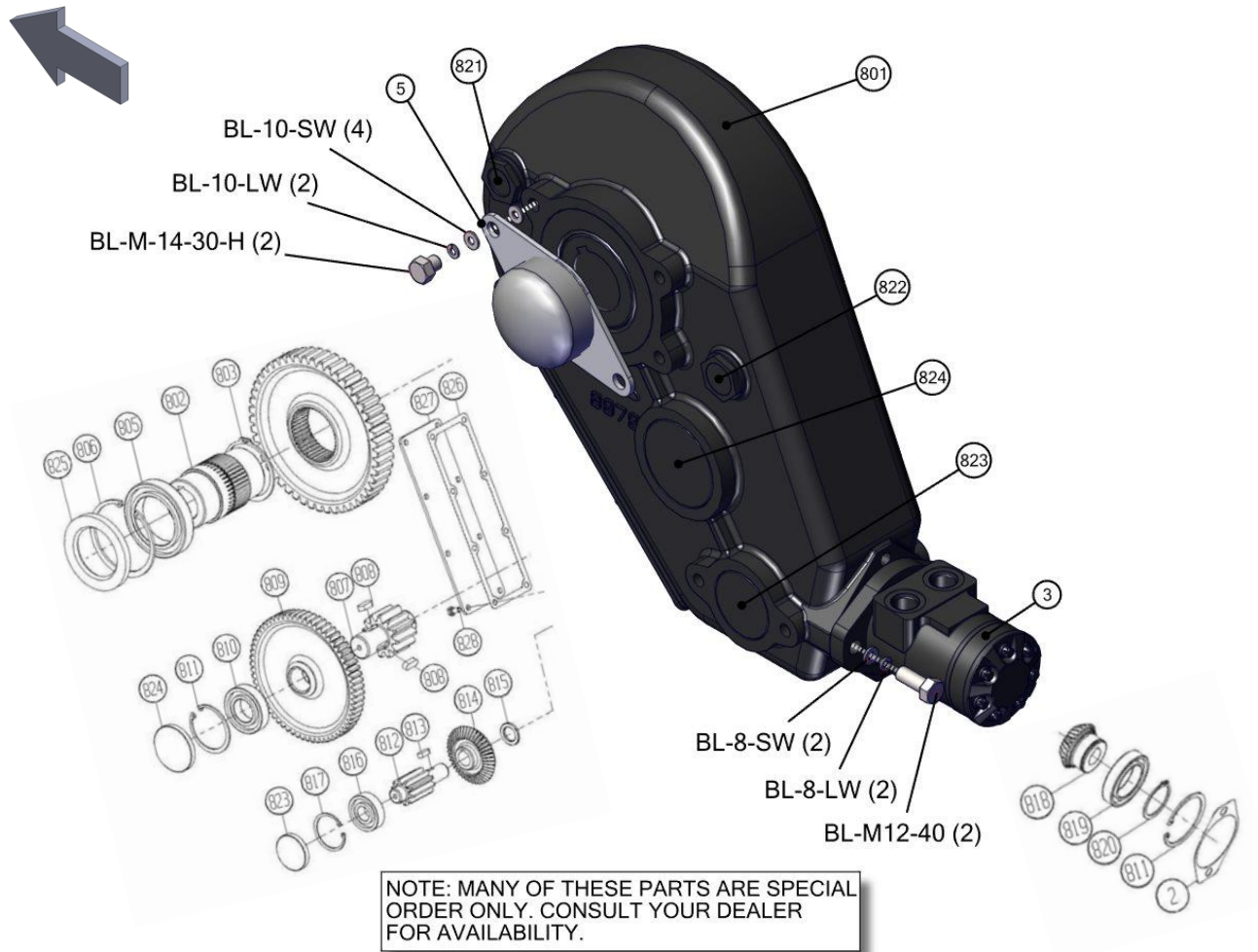




7415-2-05 WEB CHAIN GEARBOX AND MOTOR

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	GBX-1893	Gearbox, Vertical Beater Apron Drive	2		
2	PR60026	Flange Gasket, Apron Drive Gear Box	1		
3	HM-1893	Orbit Motor, Vertical Beater Apron Drive	2		
4	HP-1038	Gear Lube, 80W90 @ Quart	3		
5	PR70356	Cap, HP Spreader Gearbox	2		
100	BL-M-14-40-H	M14-2 X 40 HHCS ZC	12		
101	BL-10-LW	5/8 SPLIT LW ZC	12		
801	GBX-1893-D	Housing	1		
802	GBX-1893-B	Gearbox Hub	1		
803	GBX-1893-C	Internal Retaining Clip	1		
804	GBX-1893-E	Gear Z=54	1		
805	GBX-1893-A	Ball Bearing, Open	2		
806	GBX-1893-F	Internal Clip	2		
807	GBX-1893-G	Pinion Z=12	1		
808	GBX-1893-H	Key 12x8x30	2		
809	GBX-1893-I	Gear Z=63	1		
810	GBX-1893-J	Bearing 6208	2		
811	GBX-1893-K	Circlip I 80	3		
812	GBX-1893-L	Pinion Z=10	1		
813	GBX-1893-M	Key 8x7x25	1		
814	GBX-1893-N	Gear Z=43	1		
815	GBX-1893-O	Spacer	1		
816	GBX-1893-P	Bearing 6305	2		
817	GBX-1893-Q	Circlip I 62	2		
818	GBX-1893-R	Pinion Z=28	1		
819	GBX-1893-S	Bearing	1		
820	GBX-1893-T	Circlip E 50	1		
821	GBX-1893-U	Oil Plug 1/1" Gas	2		
822	GBX-1893-V	Oil Level Indic. 1/1" Gas	2		
823	GBX-1893-W	Plug	2		
824	GBX-1893-X	Plug	2		
825	GBX-1893-Y	Shaft Seal, Gearbox	2		
826	GBX-1893-Z	Gasket	1		
827	GBX-1893-A1	Cover	1		
828	GBX-1893-B1	Screw, hex-hd M8x16	8		

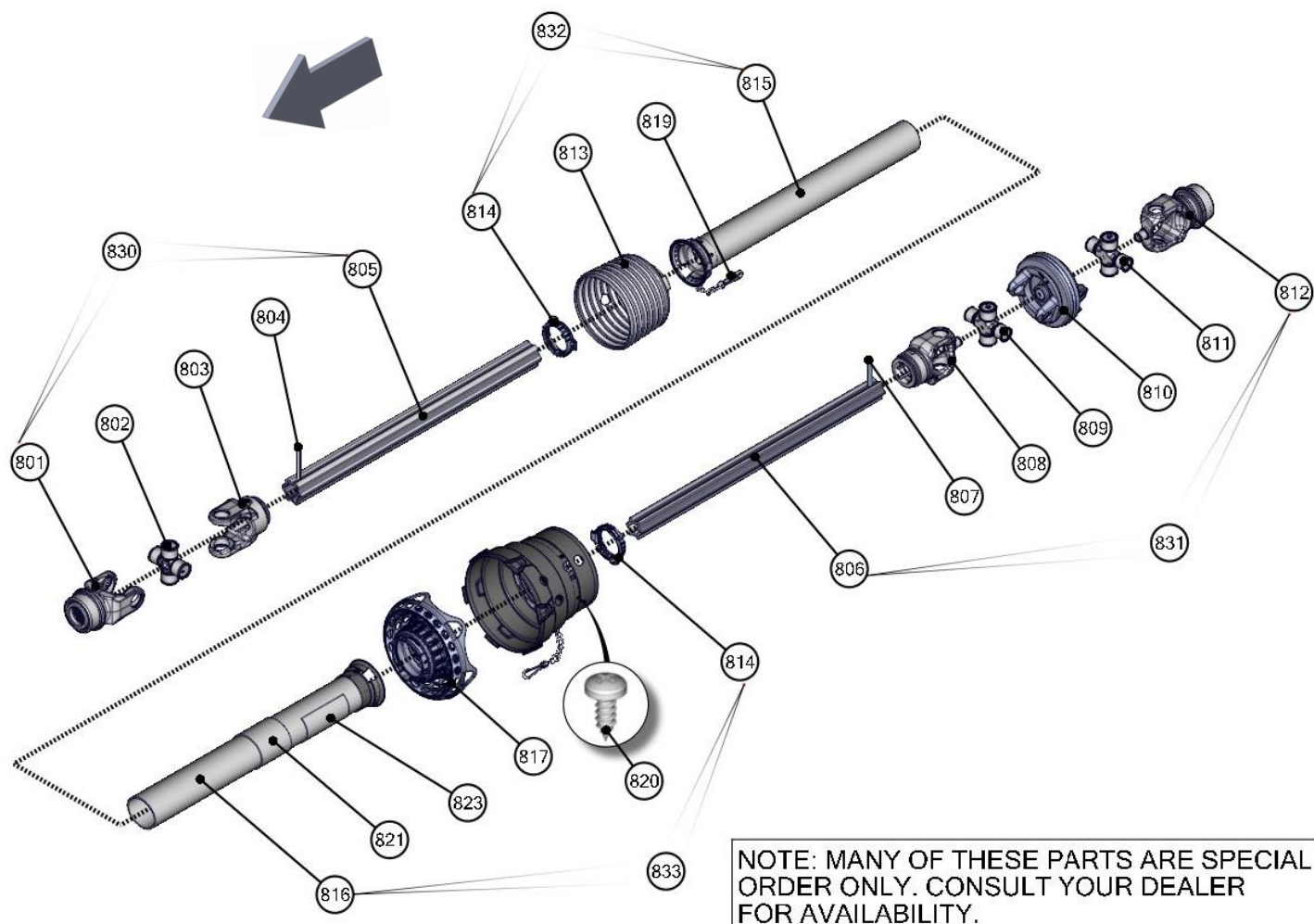
7415-2-05 WEB CHAIN GEARBOX AND MOTOR



7421-2-06A REAR DRIVELINE, COMPOST

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	PTS-1022	Driveline, 1-3/4-20 Spline, PWE580 Compost Drive	0		
801	PTS-1002A	PTO Tractor Yoke (Walterscheid) 1-3/4 x 20 Spline	1	19101-	
802	PTS-4001B	Extended Lube Cross & Bearing Kit	1	Walterscheid Yokes	Special Order Only
803	PTS-1022A	Inboard Yoke SS	1		
804	PTS-3001-D	Spring Pin 10x90	1		
805	PTS-1022F	Outer Profile S5G	1		
806	PTS-1022G	Inner Profile S4LGA	1		
807	PTS-1014C	Spring Pin 10 X 75	1		Special Order Only
808	PTS-1005D	Inboard Yoke S4	1		Special Order Only
809	PTB-1022B	Cross & Bearing Kit	1		
810	PTS-1005B	Double Yoke	1		Special Order Only
811	PTS-1022C	Cross & Bearing Kit	1		
812	PTS-1022D	Yoke ASG	1		
813	PTS-1002E	7 Rib PTO Shield Cone (Walterscheid)	1	19101-	
814	PTS-1002J	PTO Shield Bearing Ring	2		Special Order Only
815	PTS-1022E	Guard Tube Inner	1		
816	PTS-1022H	Guard Inner Tube	1		
817	PTS-1015M	Flex Net & Guard Assy	1		
818	PTS-1015L	CV Guard & Bearing Assy	1		
819	PTS-1002K	PTO Shield Safety Chain	2		Special Order Only
820	PTS-1010K	Screw	10		Special Order Only
821	PTS-1010L	Decal, Outer	1		Special Order Only
822	PTS-1010M	Decal, Inner	1		Special Order Only
823	PTS-1021P	Lubrication Decal	1	Replaces PTS-1008Q	Special Order Only
824	PTS-1008R	ASG Collar Kit	1		Special Order Only
830	PTS-1022-FH	Front Half, Drive Shaft	1		
831	PTS-1022-RH	Rear Half, Drive Shaft	1		
832	PTS-1022FS	Inner Guard Kit	1		
833	PTS-1022RS	Outer Guard Kit	1		

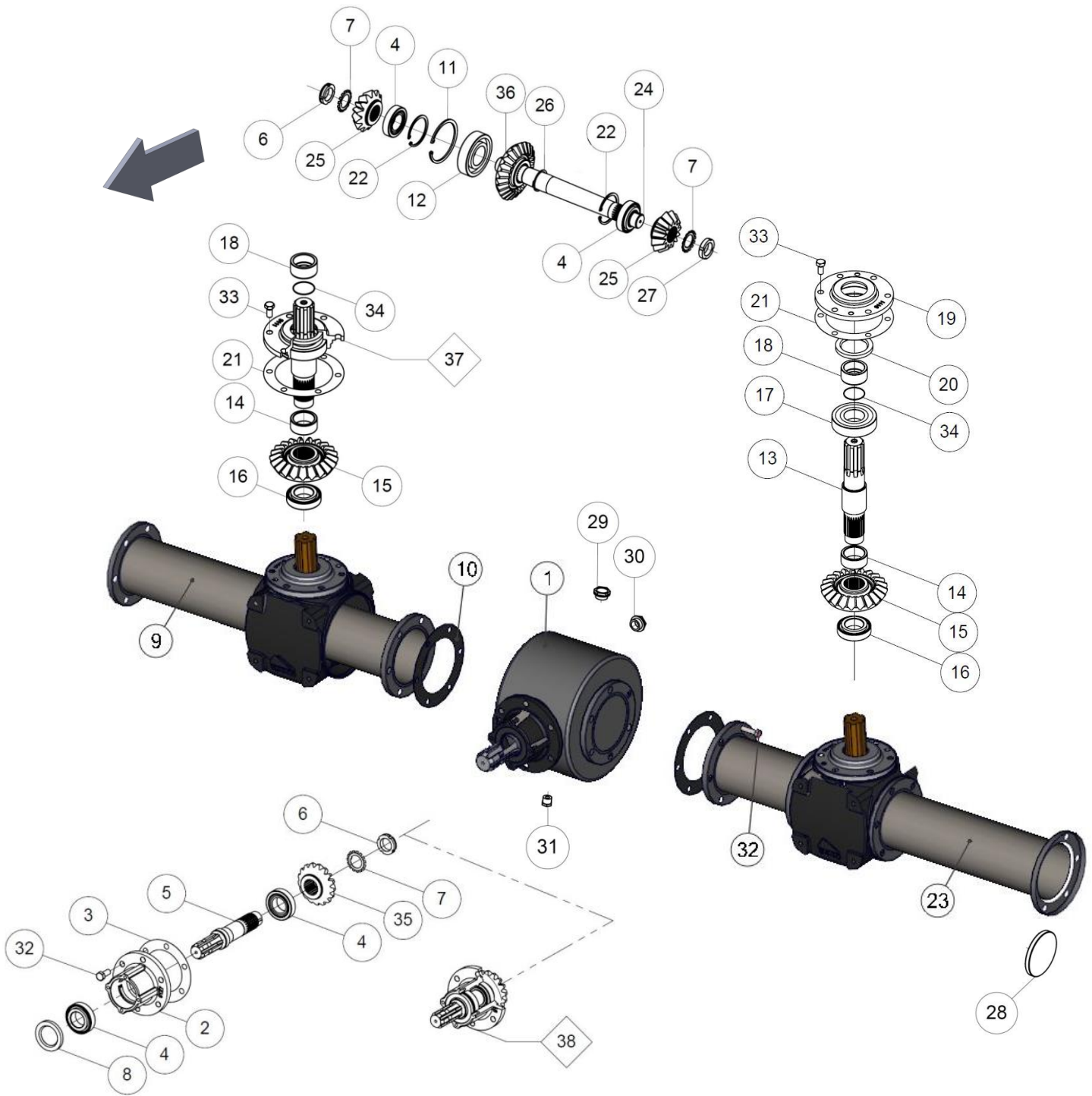
7421-2-06A REAR DRIVELINE, COMPOST



7421-02-07 VERTICAL BEATER GEARBOX

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
0	VTB-1893-A1	1000 RPM Beater Gearbox	0		
1	VTB-1899-A1	Housing	1		Special Order Only
2	VTB-1899-J2	Hub	1		Special Order Only
3	VTB-1899-H2	Gasket	1		Special Order Only
4	VTB-1899-G1	Bearing 32209	4		Special Order Only
5	VTB-1899-L2	Shaft	1		Special Order Only
6	VTB-1899-D1	Threaded Ring, LH Thread	2		Special Order Only
7	VTB-1899-E1	Washer	3		Special Order Only
8	VTB-1899-K2	Oil Seal	1		
9	VTB-1893-B1	Right Spacer Tube	1		Special Order Only
10	VTB-1899-A2	Gasket	2		Special Order Only
11	VTB-1893-C1	Snap Ring	1		Special Order Only
12	VTB-1899-H1	Bearing 6311	1		Special Order Only
13	VTB-1893-D1	Splined Shaft	2		Special Order Only
14	VTB-1899-V1	Spacer	2		Special Order Only
15	VTB-1899-W1	Gear Z=22	2		
16	VTB-1899-X1	Bearing 32210	2		Special Order Only
17	VTB-1899-T1	Bearing 6311-2RS	2		Special Order Only
18	VTB-1899-M1	Spacer	2		Special Order Only
19	VTB-1899-Q1	Calotte	2		Special Order Only
20	VTB-1899-S1	Oil Seal	2		Special Order Only
21	VTB-1899-R1	Gasket	2		Special Order Only
22	VTB-1893-E1	Snap Ring	2		Special Order Only
23	VTB-1893-F1	Right Spacer Tube	1		Special Order Only
24	VTB-1899-C1	Shaft	1		Special Order Only
25	VTB-1899-F1	Bevel Pinion Z=13	2		Special Order Only
26	VTB-1899-K1	Circlip E 55	1		Special Order Only
27	VTB-1899-L1	Threaded Ring, RH Thread	1		Special Order Only
28	VTB-1893-G1	End Cap	2		Special Order Only
29	VTB-1899-E2	Oil Plug, 1" Gas.	1		Special Order Only
30	VTB-1899-c2	Oil Lev. Indicator	1		Same as GBXA-5-ST10B
31	VTB-1899-D2	Oil Plug, 1/2" Gas	1		Special Order Only
32	VTB-1899-Z1	Screw, hex-hd M14X35	22		Reference Only, Special Order
33	VTB-1899-P1	Screw, hex-hd M14X30	12		Reference Only, Special Order
34	VTB-1899-N1	O-ring 2212	2		Special Order Only
35	VTB-1899-G2	Bevel Pinion Z=17	1		
36	VTB-1899-J1	Gear Z=24	1		
37	VTB-1893-H1	Full Cover (complete Callotte)	2		Special Order Only
38	VTB-1899-M2	Hub Complete, Gearbox	1		Special Order Only

7421-2-07 VERTICAL BEATER GEARBOX

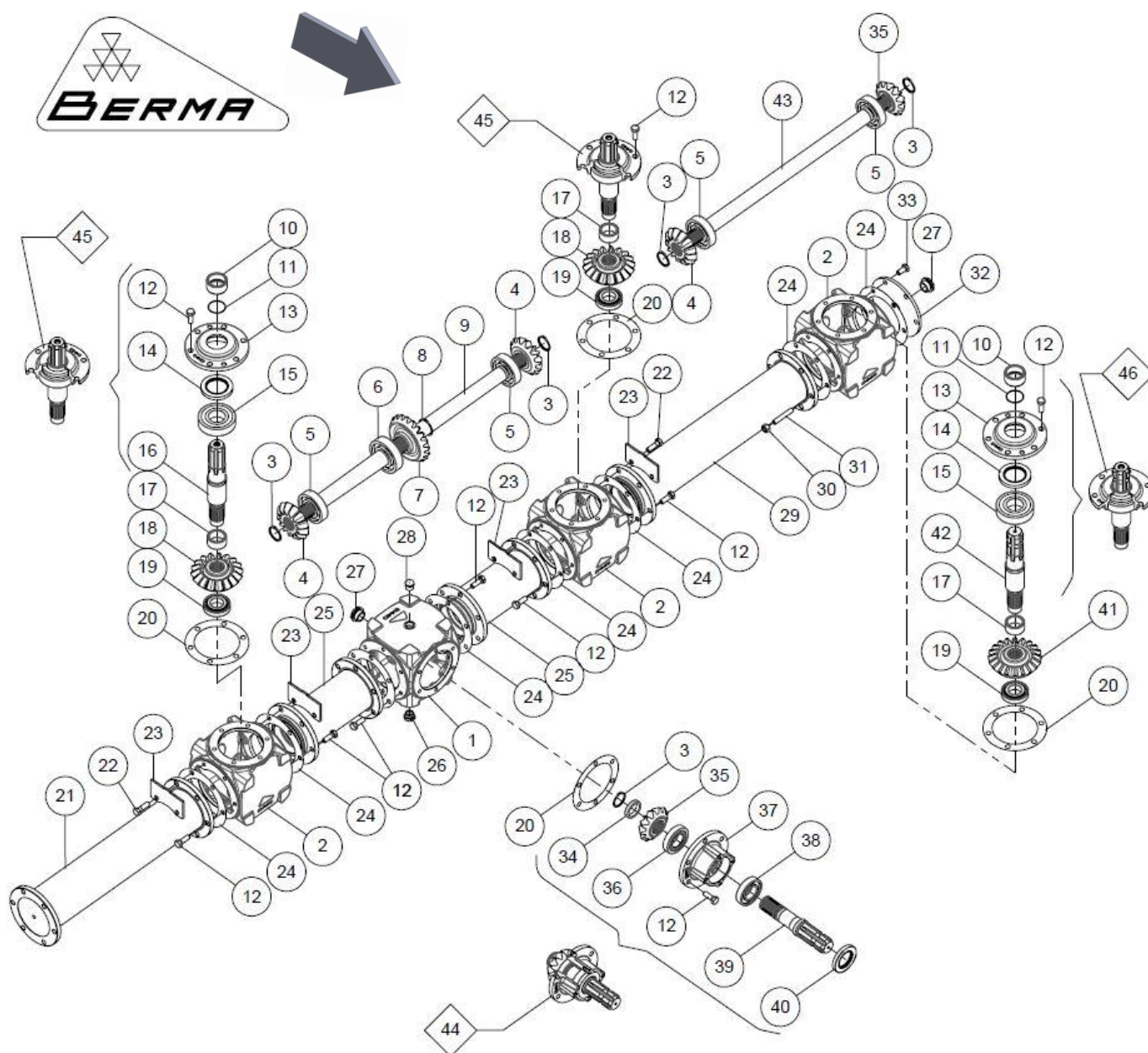


7421-2-08 GEARBOX, COMPOST BEATERS

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
0	VTB-CMP-2112	Bottom Gearbox, 2305mm, 910mm Spinner Centers	0		
1	VTB-1879-W1	Housing	1		
2	VTB-1879-U1	Housing	3		
3	VTB-1879-B1	Circlip E 40	5		
4	VTB-CMP-J1	Pinion Z=14	3		
5	VTB-1879-D1	Bearing 6308	4		
6	VTB-1879-F1	Bearing 6309	1		
7	VTB-1877-B1	Gear, Z=20	1		
8	GBX-5-ST10-R	Snap Ring, E 45	1		Reference Only, Special Order
9	VTB-CMP-D1	Shaft C.C. L=852	1		
10	VTB-1879-H1	Spacer	3		
11	VTB-1879-I1	O-ring 2175	3		
12	VTB-1879-S1	Screw, hex-hd M12x35	52		
13	VTB-1877-C1	Calotte	3		
14	VTB-1899-K2	Oil Seal	3		
15	VTB-1879-N1	Bearing 6309-2RS	3		
16	VTB-1879-J1	Shaft	2		
17	VTB-1879-O1	Spacer 40/51/25	3		
18	VTB-CMP-K1	Pinion Z=18	2		
19	VTB-1879-Q1	Bearing 30207	3		
20	VTB-1879-L1	Gasket	4		
21	VTB-CMP-2107	Spacer Tube, 18323, Extends 2000mm to 2305mm, RH	1		
22	VTB-CMP-A1	BOLT M12X40	8		
23	VTB-CMP-B1	Cental Support	4		
24	VTB-1879-T1	Gasket	8		
25	VTB-CMP-C1	Center Spacing, L=255	2		
26	VTB-1899-D2	Oil Plug, 1/2" Gas	1		Special Order Only
27	VTB-1899-C2	Oil Lev. Indicator 1" Gas	2		Same as GBXA-5-ST10B
28	VTB-1879-Z1	Plug 1/2" Gas	1		
29	VTB-CMP-L1	Spacer L=622	1		
30	VTB-1879-T2	Nut M12-8G	6		
31	VTB-CMP-E1	BOLT M12X70	6		
32	VTB-CMP-H1	Cap	1		
33	VTB-CMP-G1	BOLT M12X25	6		
34	VTB-1877-D1	Spacer	1		
35	VTB-1879-C1	Pinion Z=13	2		
36	VTB-1877-E1	Bearing, 30208	1		
37	VTB-1879-C2	Hub	1		
38	VTB-1879-E2	Bearing 6208	1		

7421-2-08 GEARBOX, COMPOST BEATERS

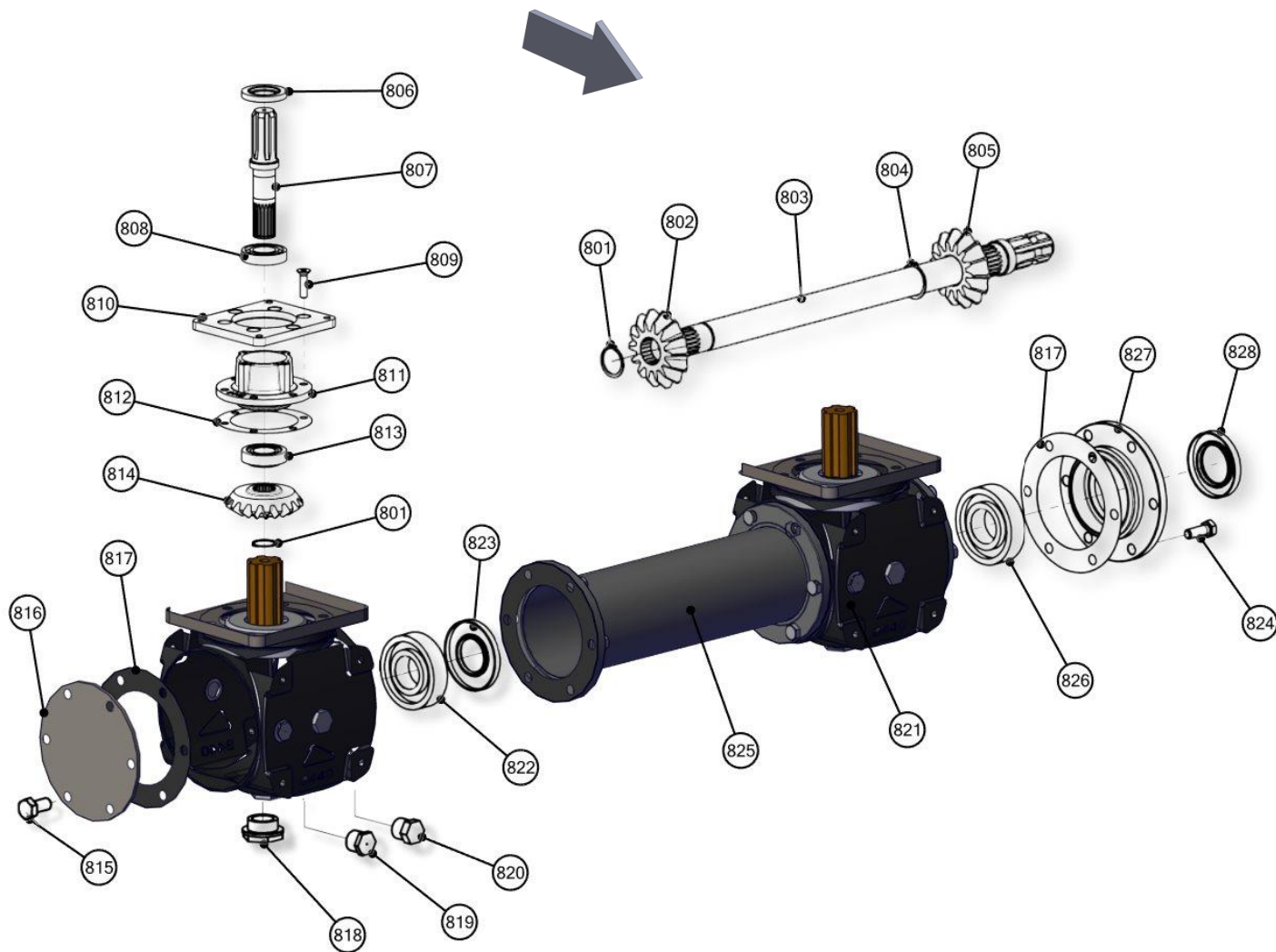
REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
39	VTB-1879-D2	Shaft	1		
40	VTB-1879-F2	Oil Seal 48/80/10	1		
41	VTB-1879-P1	Gear Z=20	1		
42	VTB-1879-W2	Shaft	1		
43	VTB-CMP-2100	Longer Shaft, 2000mm to 2305mm	1		
44	VTB-1877-F1	Hub, Complete	1		
45	VTB-1879-H2	Calotte Complete	2		
46	VTB-CMP-F1	Shell	1		



7421-2-09 GEARBOX, COMPOST BEATERS, SIDE

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
801	VTB-1879-B1	Circlip E 40	3		
802	VTB-CMP-J1	Pinion Z=14	1		
803	VPA-MAS-15466	3 NPT w/12 Body, Oil Separator	1		
804	GBX-5-ST10-R	Circlip, Compost Beater	1		
805	VTB-CMP-2200-Q	Bevel Pinion Z=14	1		
806	VTB-CMP-2200-R	Oil Seal 52/80/10-DL	2		
807	VTB-CMP-2200-S	Shaft	2		
808	VTB-1879-E2	Bearing 6208	2		
809	VTB-CMP-2200-V	M12x50	12		
810	VTB-CMP-2200-U	Fixing Plate	2		
811	VTB-1879-C2	Hub	2		
812	VTB-1879-L1	Gasket, Compost Beater	2		
813	VTB-1879-B2	Bearing 32208	2		
814	VTB-CMP-K1	Gear, Compost Beater	2		
815	VTB-CMP-G1	BOLT M12X25	6		
816	VTB-CMP-2200-W	Cover	1		
817	VTB-1879-T1	Gasket	4		
818	VTB-1899-C2	Oil Lev. Indicator	2		Same as GBXA-5-ST10B
819	VTB-1879-Z1	Plug 1/2 Gas	2		
820	VTB-1899-D2	Oil Plug, 1/2 Gas	4		Special Order Only
821	VTB-CMP-2200-X	Lateral Housing	2		
822	VTB-1879-D1	Bearing 6308	1		
823	VTB-CMP-2200-Y	Oil Seal 40/86/9	1		
824	VTB-1879-S1	Screw, hex-hd M12x35	18		
825	VTB-CMP-2200-Z	Spacer L=400	1		
826	VTB-1879-F1	Bearing 6309	1		
827	VTB-CMP-2200-A1	Calotte	1		
828	VTB-CMP-2200-B1	Oil Seal 50/85/10-DL	1		

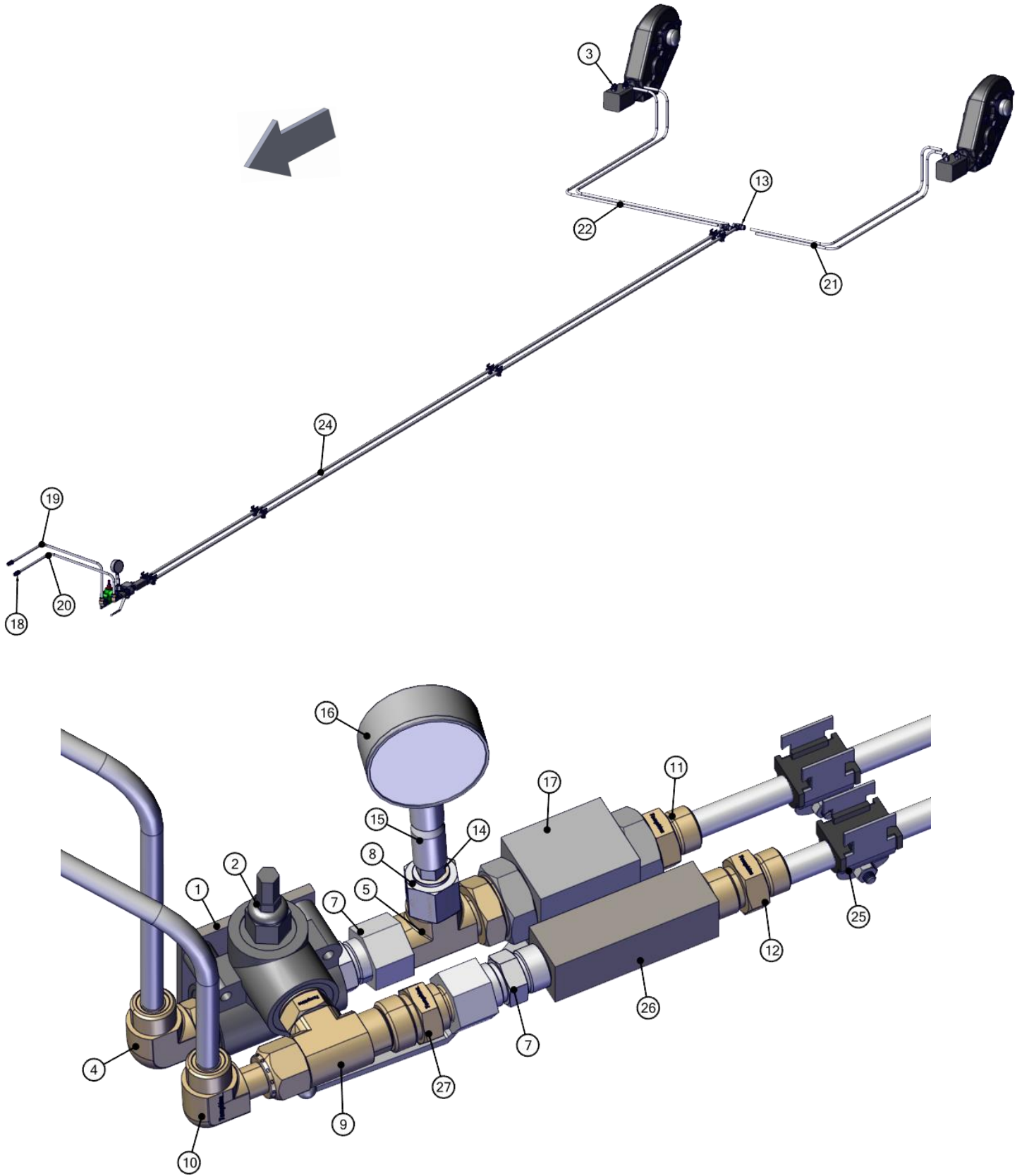
7421-2-09 GEARBOX, COMPOST BEATERS, SIDE



7421-3-01 WEB DRIVE HYDRAULICS

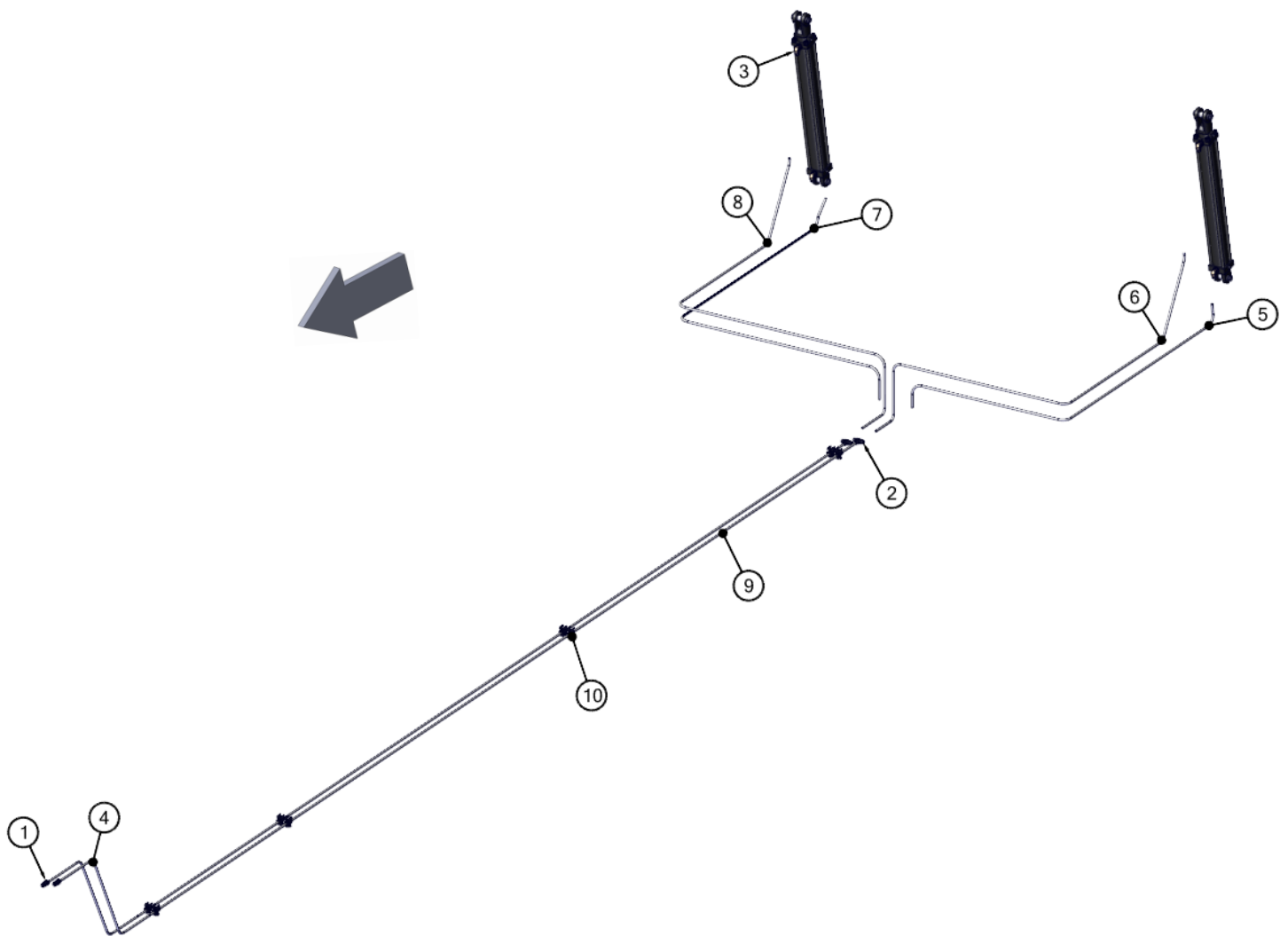
REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	PR80110	Bracket, Relief Valve	1		
2	HV-RV-3H	Relief Valve w/ SAE #10 Ports	1		
3	A-FF2503-10-08	Elbow, 45, 10MFF x 8MP	4		
4	A-FF6801-10-10	Elbow, 5/8" MFF x 5/8" SAE	1		
5	A-FF6804-10-12-10	Run Tee, 10MFF x 12SAE x 10MFF	1		
7	A-FF6507-10-10	Swivel Straight Adapter, 5/8" FFFX x 5/8" SAE	2		
8	A-FF304-C-10-4S	Cap, 10 Male ORFS, 1/4" SAE Port	1		
9	A-FF6803-10-10-10	TEE, 10MFF X 10MFF X 10 SAE	1		
10	A-FF6500-10-10	Elbow, 90, 10MFF x 10FFFX	1		
11	A-FF6400-12-12	Union, 12MFF x 12SAE	1		
12	A-FF6400-12-10	Union, 12MFF x 10SAE	1		
13	A-FF2603-12-12-12	Tee, 3/4" MFF x 3/4" MFF X 3/4" MFF	2		
14	HA-1004-4	Test Point Plug #4 SAE Thread	1		
15	HA-1005-T	Test Point Probe	1		
16	HA-1004-G	Hydraulic, Pressure Gauge w/1/4 NPT Stem	1		
17	VLV-075-BHP	Ball Valve, 3/4" SAE, High Pressure (58000psi)	1		
18	A-QDS71X15	Ag Quick Coupler, 1/2" ISO5675 x 8SAE	2		
19	H10-84-10FFFX-8MOR	5/8" Hose, 5/8" Female ORFS x 1/2" SAE	1		
20	H10-90-10FFFX-8MOR	5/8" Hose, 5/8" Female ORFS x 1/2" SAE	1		
21	H10-95-10FFFX-10FFFX	5/8" Hose, 5/8" Female ORFS x 5/8" ORFS x 95" Long	2		
22	H10-100-10FFFX-10FFFX	5/8" Hose, 5/8" Female ORFS x 5/8" ORFS x 100" Long	2		
24	H-T5009F	Hydraulic Tube SS, 3/4" x 240", Flat Flare Fittings	2		
25	HA-1072-H	Hydra-zorb Tube Clamp 1" (3 pc.)	10		
26	HV-CKV-C1020S	#10 Parker Check Valve, 5 psi Crack, 15 gpm	1		
27	A-FF6502-10-10	Elbow, 45, 10MFF x 10FFFX	1		

7421-3-01 WEB DRIVE HYDRAULICS



7419-3-02 ENDGATE HYDRAULICS

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	A-QDS71X15	Ag Quick Coupler, 1/2" ISO5675 x 8SAE	2		
2	A-FF2603-06-06-06	Tee, 6MFF x 6MFF X 6MFF	2		
3	A-FF6801-06-08	ELBOW, 90, 6MFF X 8SAE	4		
4	H6-100-6MFF-8MOR	3/8in Hose, 3/8 Male ORFS x 1/2 SAE x 100in Long	2		
5	H4-89-6FFFX-6FFFX	1/4" Hose, 3/8" Female ORFS x 3/8" Female ORFS x 89" Long	1		
6	H4-113-6FFFX-6FFFX	1/4" Hose, 3/8" Female ORFS x 3/8" Female ORFS x 113" Long	1		
7	H4-92-6FFFX-6FFFX	1/4" Hose, 3/8" Female ORFS x 3/8" Female ORFS x 92" Long	1		
8	H4-122-6FFFX-6FFFX	1/4" Hose, 3/8" Female ORFS x 3/8" Female ORFS x 122" Long	1		
9	H-T7082F	3/8" SS Hydraulic Line, ORFS, 240"	2		
10	HA-1074-H	Hydra-zorb Tube Clamp 3/8" (3 pc.)	8		



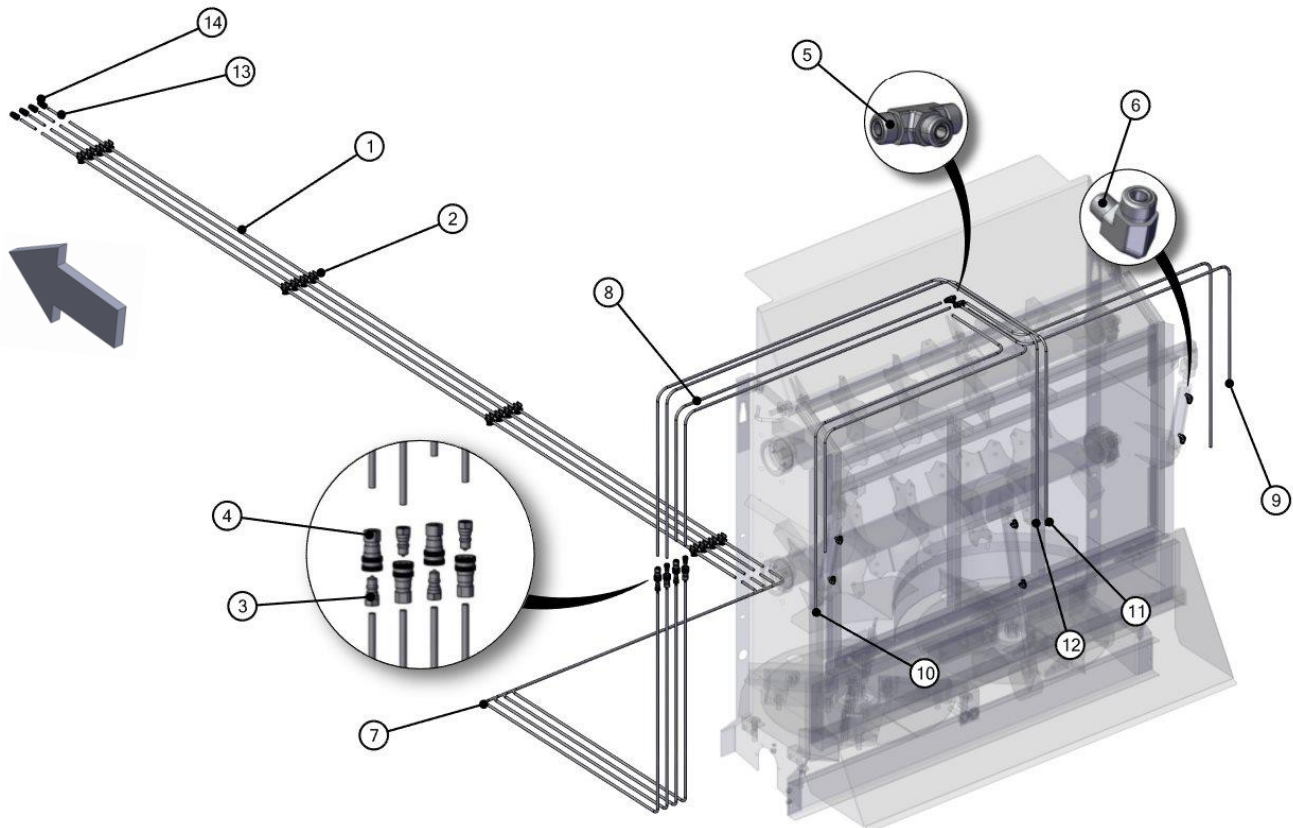
7415-3-03 ENDGATE CYLINDERS

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	HC-250-2408-ORP	Hydraulic Cylinder 2 1/2 x 24 #8 SAE w/ O-Piston Ring Seal	2		
801	HC-250-125	Seal Kit for 2 1/2" x 1 1/4" Cylinder	0		



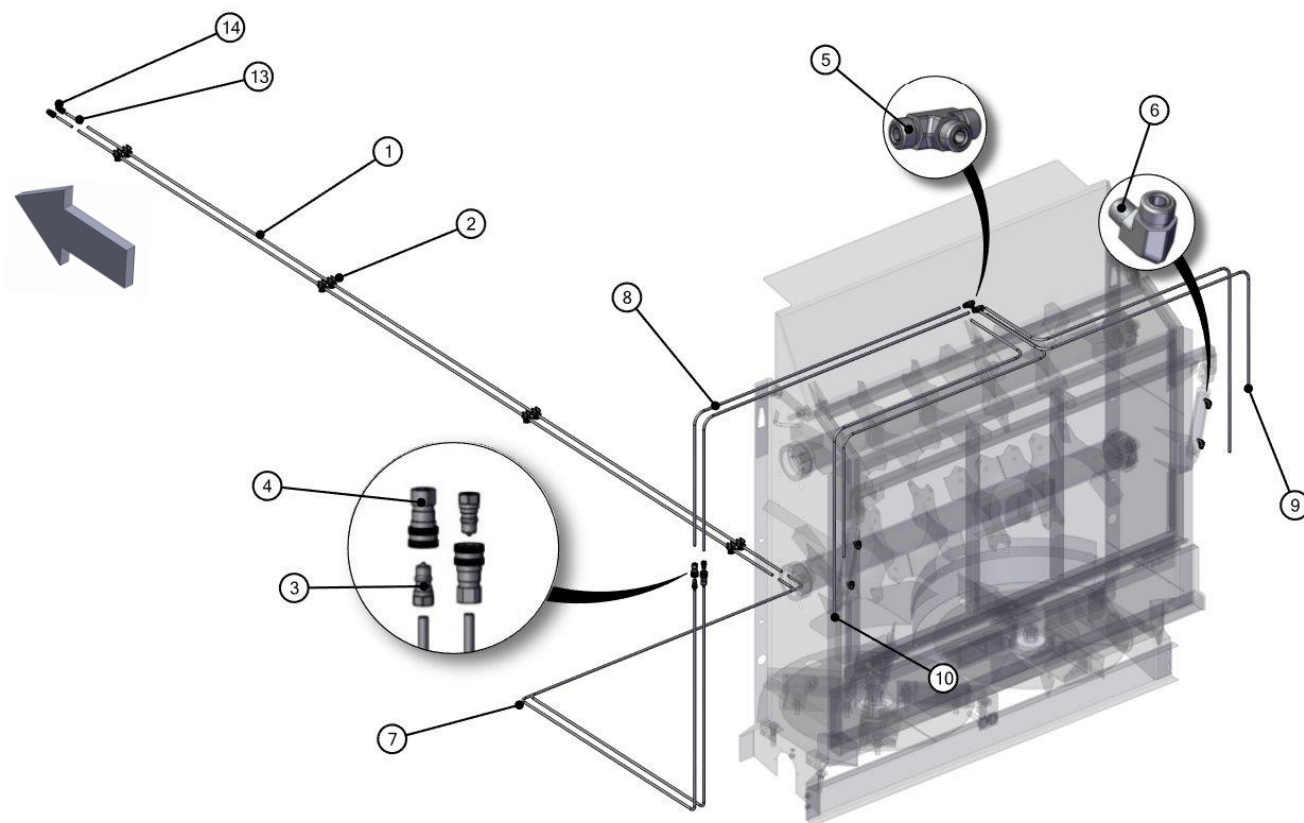
7419-3-04 COMPOST HYDRAULICS WITH TRIM PANEL

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	H-T7082F	3/8" SS Hydraulic Line, ORFS, 240"	4		
2	HA-1074-H	Hydra-zorb Tube Clamp 3/8" (3 pc.)	16		
3	A-QDFF04S916M	Flat Face Quick Disconnect, Male, 3/8" SAE Fitting	4		
4	A-QDFF04S916F	Flat Face Quick Connector, Female, 3/8" SAE Fitting	4		
5	A-FF6804-6-6-6	Run Tee, 3/8" Male ORFS x 3/8" Male ORFS x 3/8" SAE	2		
6	A-FF2501-6-4	Elbow, 3/8" Male ORFS x 1/4" MP	6		
7	H6-175-6MFF-6MOR	3/8" Hose, 3/8" Male ORFS x 3/8" SAE	4		
9	H4-40-6FFFX-6FFFX	1/4" Hose, 3/8" Female ORFS x 3/8" Female ORFS, 40"	2		
10	H4-86-6MOR-6FFFX	1/4" Hose, 3/8" SAE x 3/8" Female ORFS, 86"	1		
11	H4-96-6MOR-6FFFX	1/4" Hose, 3/8" SAE x 3/8" Female ORFS, 136"	1		
12	H4-136-6FFFX-6FFFX	1/4" Hose, 3/8" Female ORFS x 3/8" Female ORFS, 136"	2		
13	H6-100-6MFF-8MOR	3/8in Hose, 3/8 Male ORFS x 1/2 SAE x 100in Long	4		
14	A-QDS71X15	Ag Quick Coupler, 1/2" ISO5675 x 8SAE	4		



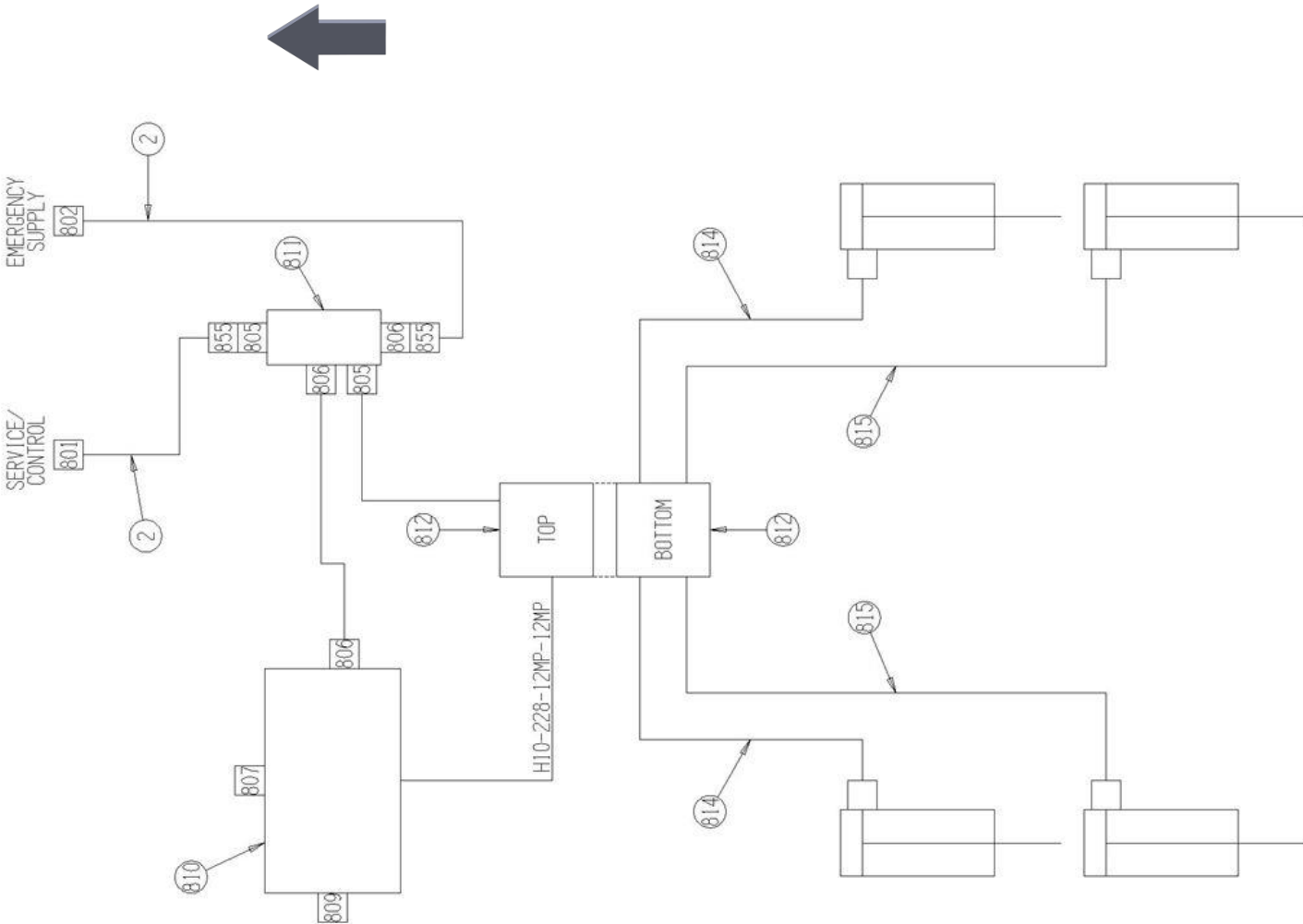
7419-3-05 COMPOST HYDRAULICS WITHOUT PANEL

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	H-T7082F	3/8" SS Hydraulic Line, ORFS, 240"	2		
2	HA-1074-H	Hydra-zorb Tube Clamp 3/8" (3 pc.)	8		
3	A-QDFF04S916M	Flat Face Quick Disconnect, Male, 3/8" SAE Fitting	2		
4	A-QDFF04S916F	Flat Face Quick Connector, Female, 3/8" SAE Fitting	2		
5	A-FF6804-6-6-6	Run Tee, 3/8" Male ORFS x 3/8" Male ORFS x 3/8" SAE	2		
6	A-FF2501-6-4	Elbow, 3/8" Male ORFS x 1/4" MP	4		
7	H4-500-6FFFX-6MOR	1/4" Hose, 3/8" Female ORFS x 3/8" SAE, 500"	2		
9	H4-40-6FFFX-6FFFX	1/4" Hose, 3/8" Female ORFS x 3/8" Female ORFS, 40"	2		
12	H4-136-6FFFX-6FFFX	1/4" Hose, 3/8" Female ORFS x 3/8" Female ORFS, 136"	2		
14	A-QDS71X15	Ag Quick Coupler, 1/2" ISO5675 x 8SAE	2		
15	A-FF6400-6-8	Adapter, 3/8" Male ORFS x 1/2" SAE	2		



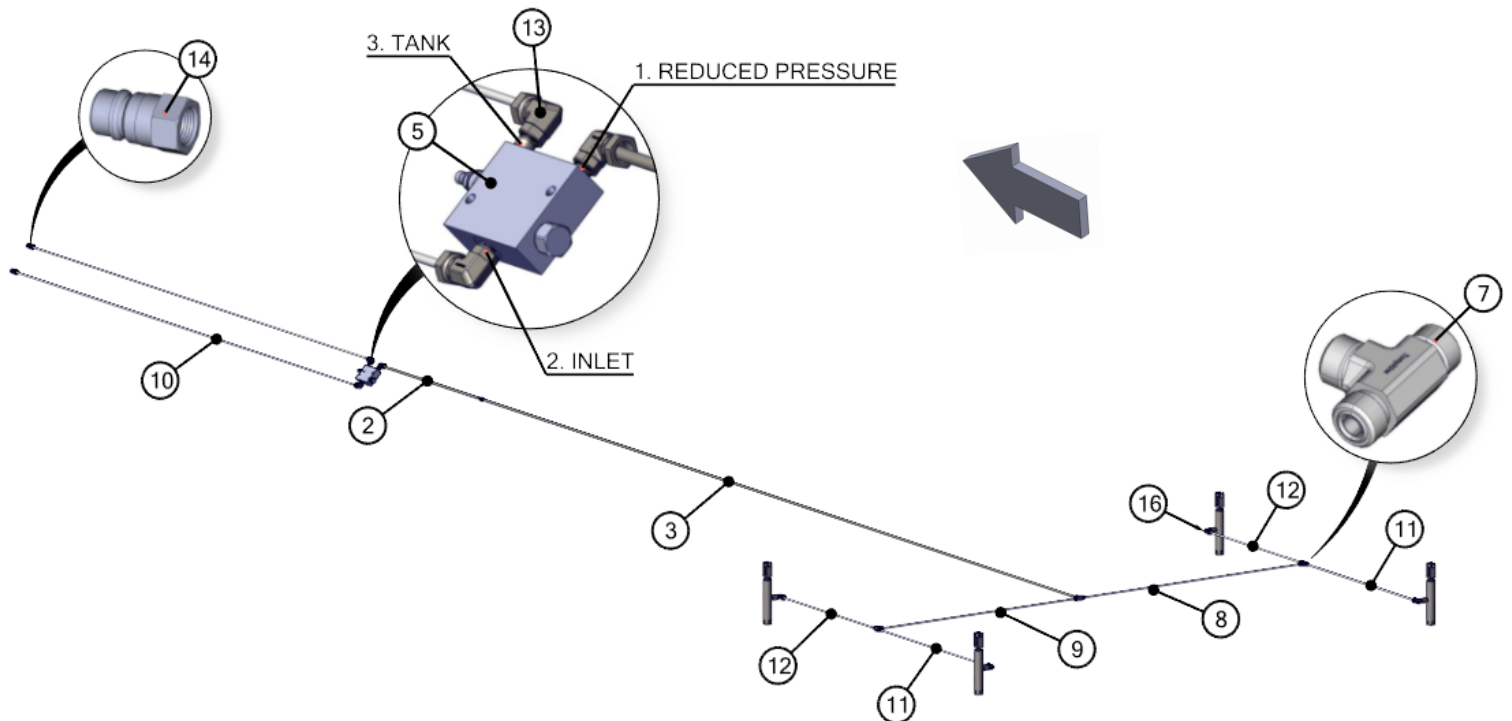
7421-4-01 OPT. AIR BRAKES, ADR AXLES

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	TRL-BRK-0001	Trailer Air Brake, Brake Actuating Kit	1		
2	TRL-BRK-0002	Air Line Set for Air Brakes	1		
3	AIR-N6DOT	3/8 Nylon Tubing @ ft., Meets D.O.T. Specs, Black	23.88		
4	A-1405-8-8	1/2 NPT Coupler w/Swivel	2		
5	A-1501-12-12	3/4 MP x 3/4 FPX 90	1		
6	A-1404-12-12	3/4 MP x 3/4 FPX	1		
7	A-5405-4-6	Pipe Adapter 3/8 FPT x 1/4 MPT	2		
8	LA-309	Universal Gladhand Holder	2		
9	PR60000-Z2	Rectangular Tubing	2		
10	PR60091	Mount, Air Brake Asm	1		
100	BL-8-150-C	1/2-13 X 1-1/2 CARRIAGE BOLT G5 ZC	4		
101	BL-8-FW	1/2 USS 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		
601	H10-300-10FJ-10FJ	5/8" Hose x 5/8" Female JIC x 300 Long	1		
602	A-5502-6-8	Street Elbow 90, 3/8 MP x 1/2 FP	2		
603	A-7455-06-16	Metric To Pipe Adapter, 3/8in Pipe to 16mm	4		
801	TRL-BRK-0003	Gladhand - Service	1		
802	TRL-BRK-0004	Gladhand - Emergency	1		
803	TRL-BRK-0005	1/2 Bulkhead Coupling	2		
804	TRL-BRK-0006	3/8 x 1/4 Male Connector	2		
805	TRL-BRK-0007	3/8 x 3/8 Male Connector	3		
806	TRL-BRK-0008	3/8 x 3/8 Male Elbow	5		
807	TRL-BRK-0009	1/4 Drain Valve	1		
808	TRL-BRK-0010	3/4 Hex Nipple	1		
809	TRL-BRK-0011	3/8 Pipe Plug	1		
810	TRL-BRK-0012	Air Tank - Standard 9x28, 6.5 Gallon	1		
811	TRL-BRK-0013	Emergency Spool	1		
812	TRL-BRK-0014	Air Relay Valve	1		
814	TRL-BRK-0016	3/8 x 40 Air Brake Hose Assy	2		
815	TRL-BRK-0017	3/8 X 72 Air Brake Hose Assy	2		



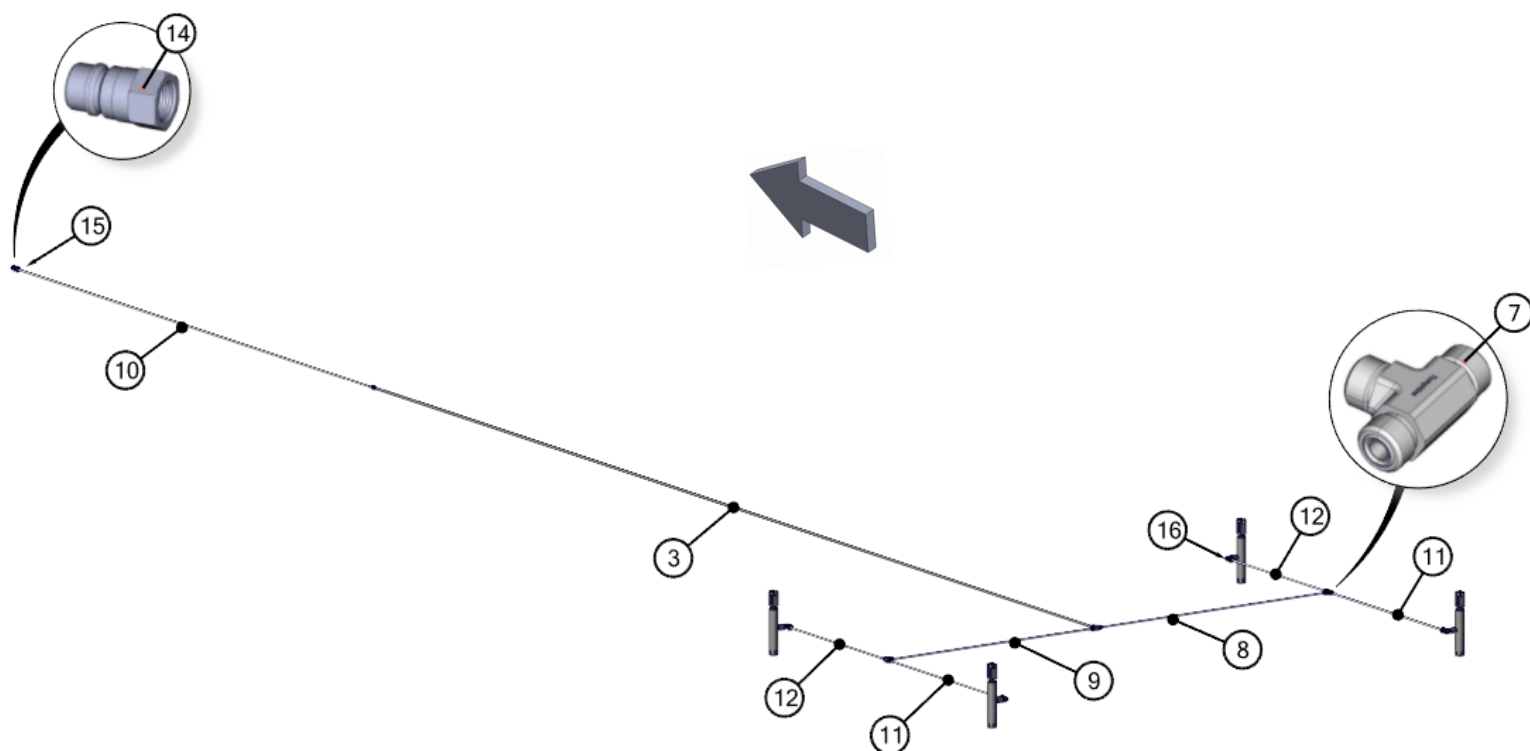
7421-4-02 HYDRAULIC DRUM BRAKES, REMOTE

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	HA-1004-T	Test Point Plug, 1/4" NPT	1		
2	H4-21-6MFF-6MFF	1/4" Hose, 3/8" Male ORFS x 3/8" Male ORFS x 21" Long	1		
3	H-T7063F	3/8" SS Hydraulic Tube, 190", ORFS	1		
4	HA-1074-H	Hydra-zorb Tube Clamp 3/8" (3 pc.)	3		
5	HV-1002	Pressure Reducing/Relieving Valve 50-1500 w/RFF Body	1		
6	HV-1002-K	Standard Knob for HV-1002	1		
7	A-FF2603-06-06-06	Tee, 6MFF x 6MFF X 6MFF	3		
8	H4-36-6FFFX-6FFFX	1/4in Hose, 3/8 Female ORFS x 3/8 Female ORFS, 36in Long	1		
9	H4-16-6FFFX-6FFFX	1/4in Hose, 3/8 Female ORFS x 3/8 Female ORFS, 16in Long	1		
10	H4-105-6MFF-8MOR	1/4in Hose, 3/8 Male ORFS x 1/2 SAE x 105in Long	2		
11	H4-48-6FFFX-6MP	1/4in Hose, 3/8 Female ORFS x 3/8 Male Pipe, 48in Long	2		
12	H4-36-6FFFX-6MP	1/4in Hose, 3/8 Female ORFS x 3/8 Male Pipe, 36in Long	2		
13	A-FF6809-6-6	Elbow, 90, 3/8" SAE x 3/8" FFFX	3		
14	A-QDS71X15	Ag Quick Coupler, 1/2" ISO5675 x 8SAE	2		
15	A-5404-6-6	Hex Nipple, 3/8" x 3/8"	4		
16	A-1405-6-6	3/8 NPT coupler w/swivel	4		
100	BL-5-175-8	HCS 5/16-18 X 1 1/8" GRADE 8 YELLOW ZINC	2		
101	BL-5-FW	5/16 USS FW ZC	4		
102	BL-5-LN	5/16-18 HEX LN NE ZC	2		



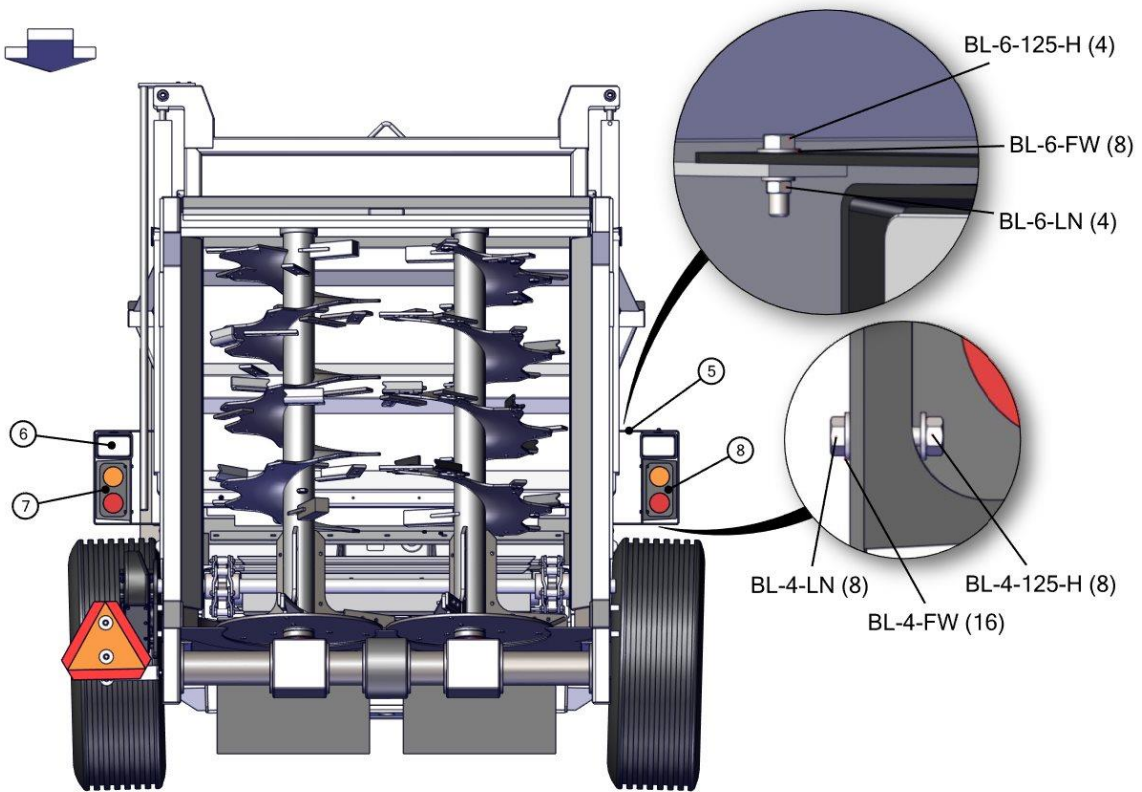
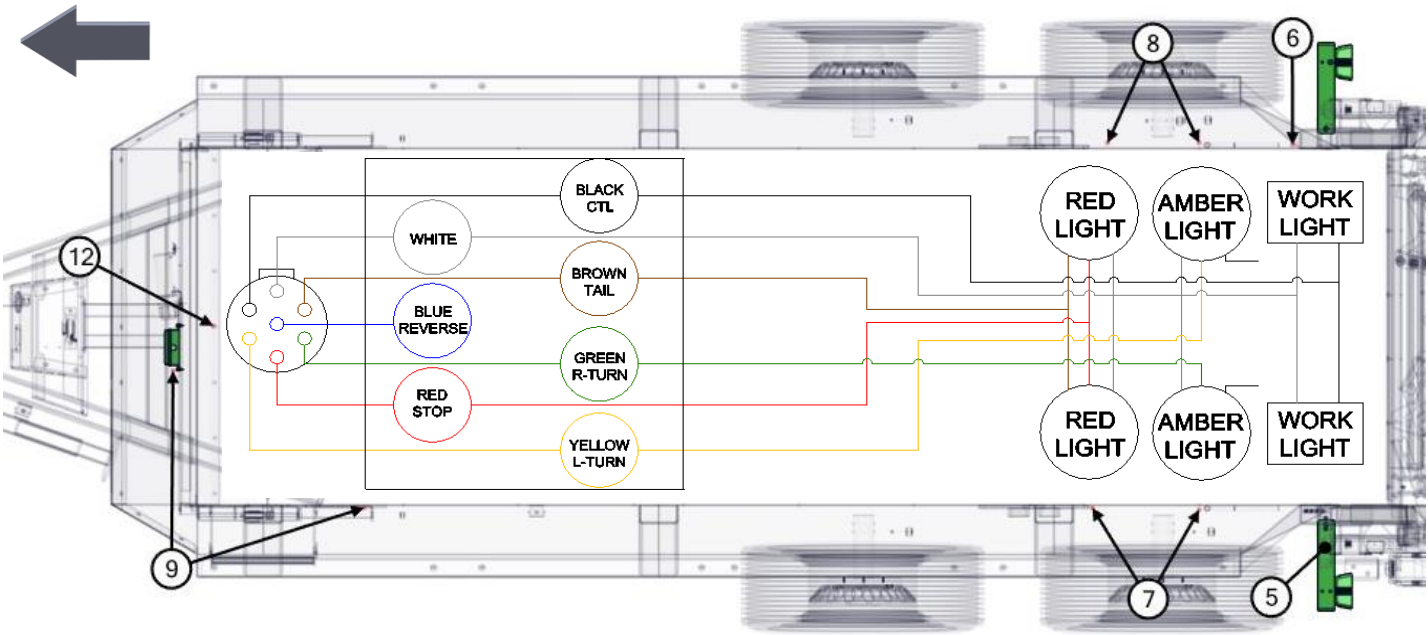
7421-4-03 HYDRAULIC DRUM BRAKES, EURO FF

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
3	H-T7063F	3/8" SS Hydraulic Tube, 190", ORFS	1		
4	HA-1074-H	Hydra-zorb Tube Clamp 3/8" (3 pc.)	3		
7	A-FF2603-06-06-06	Tee, 6MFF x 6MFF X 6MFF	3		
8	H4-36-6FFFX-6FFFX	1/4in Hose, 3/8 Female ORFS x 3/8 Female ORFS, 36in Long	1		
9	H4-16-6FFFX-6FFFX	1/4in Hose, 3/8 Female ORFS x 3/8 Female ORFS, 16in Long	1		
10	H4-105-6MFF-8MOR	1/4in Hose, 3/8 Male ORFS x 1/2 SAE x 105in Long	1		
11	H4-48-6FFFX-6MP	1/4in Hose, 3/8 Female ORFS x 3/8 Male Pipe, 48in Long	2		
12	H4-36-6FFFX-6MP	1/4in Hose, 3/8 Female ORFS x 3/8 Male Pipe, 36in Long	2		
14	AQ-160559	Hyd. Quick-Connect Coupler, JD Hydraulic Brake	1		
15	A-5404-6-6	Hex Nipple, 3/8" x 3/8"	4		
16	A-1405-6-6	3/8 NPT coupler w/swivel	4		



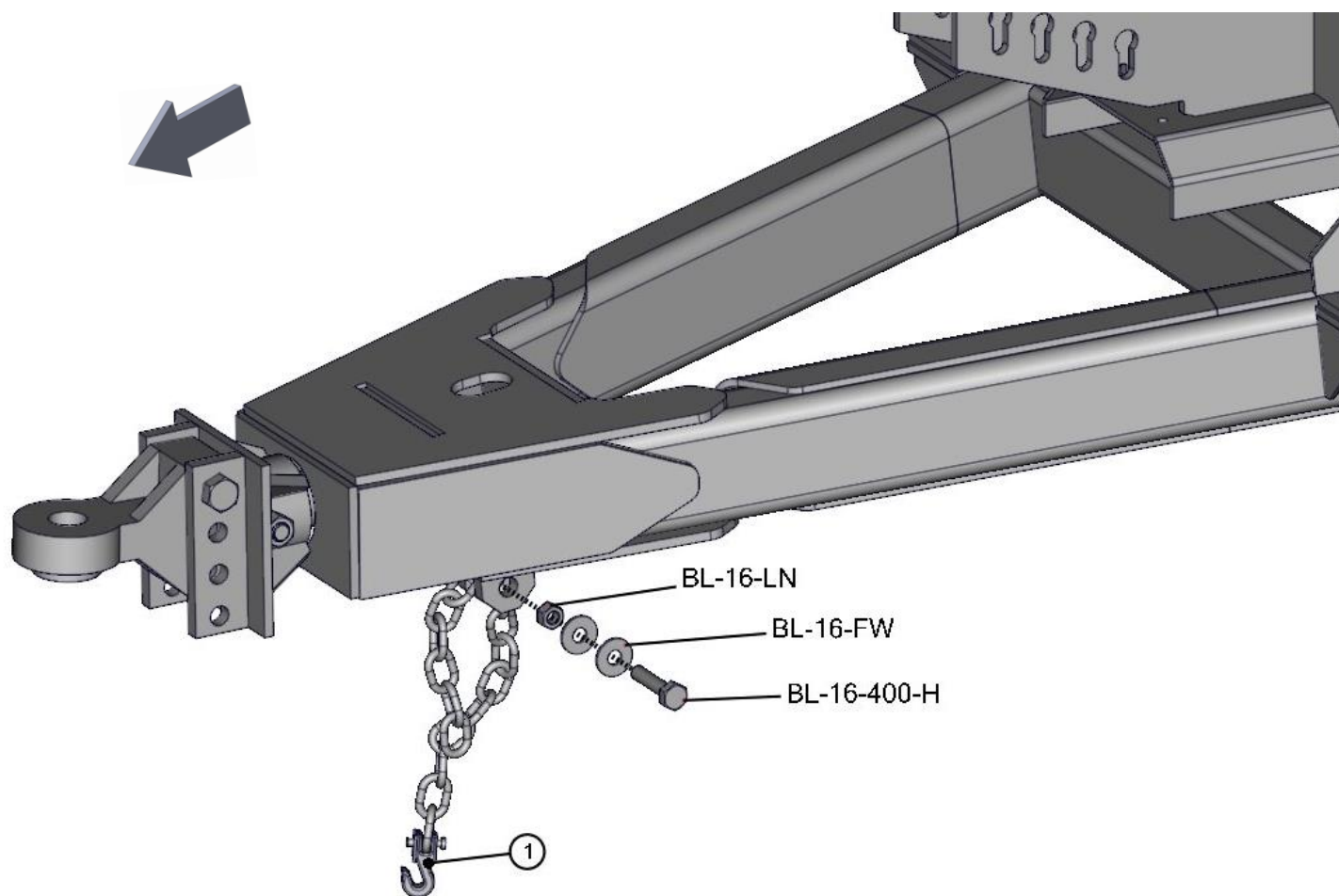
7415-5-01 ELECTRICAL AND LIGHTING

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
2	EL-40602-342	Harness, Right Side Spreader Light	1		
1	EL-40603-426	Harness, Left Side Spreader Lights	1		
3	EL-40604-13	Harness, Work Lights, Spreader	2		
4	EL-50780-362	7 Conductor x 30" Long, Harness	1		
5	PR63007	Light Bracket	2		
100	BL-6-125-C	3/8-16 X 1-1/4 CARRIAGE BOLT G5 ZC	8		
101	BL-6-LW	3/8 SPLIT LW ZC	8		
102	BL-6-N	3/8-16 HEX NUT ZC	8		
103	BL-6-SW	3/8 SAE FW ZC	16		
104	BL-6-100-H	3/8-16 X 1 HH C/S BOLT G5 ZC	4		
105	BL-6-LN	3/8-16 FIN H LN NE A563 GA ZC	4		
106	BL-1224-125-DT	12-24 x 1 1/4" Drill and Tap Screw	6		
107	BL-4-FW-8	1/4 FW G8	10		
14	HA-1031	Hydraulic Hose Holder 3/8	6		
109	BL-4-075-H	1/4-20 X 3/4 HH C/S BOLT G5 ZC	2		
110	BL-4-LN	1/4-20 HEX LN NE ZC	2		
13	ELL-375	3/8" Wire Loom @ft	2		
6	EL-1233	Light, Auxiliary Work Light, Clear, Trapezoid Beam, TL#80394	2		
7	EL-1501	LED Ag Light, LH, w/ brake light	1		
8	EL-1502	LED Ag Light, RH, w/ brake light	1		
9	EL-1361	Junction Box, (7) Studs, (5) Entry, High Impact PE, 2.5x3.5x8.0	1		
11	ELT-37675	7 Conductor Plug w/ Spring, Rd Conn.	1		
10	EL-1503	4-Pin LED Light Connector, LH	1		
12	EL-1504	4-Pin LED Light Connector, RH	1		



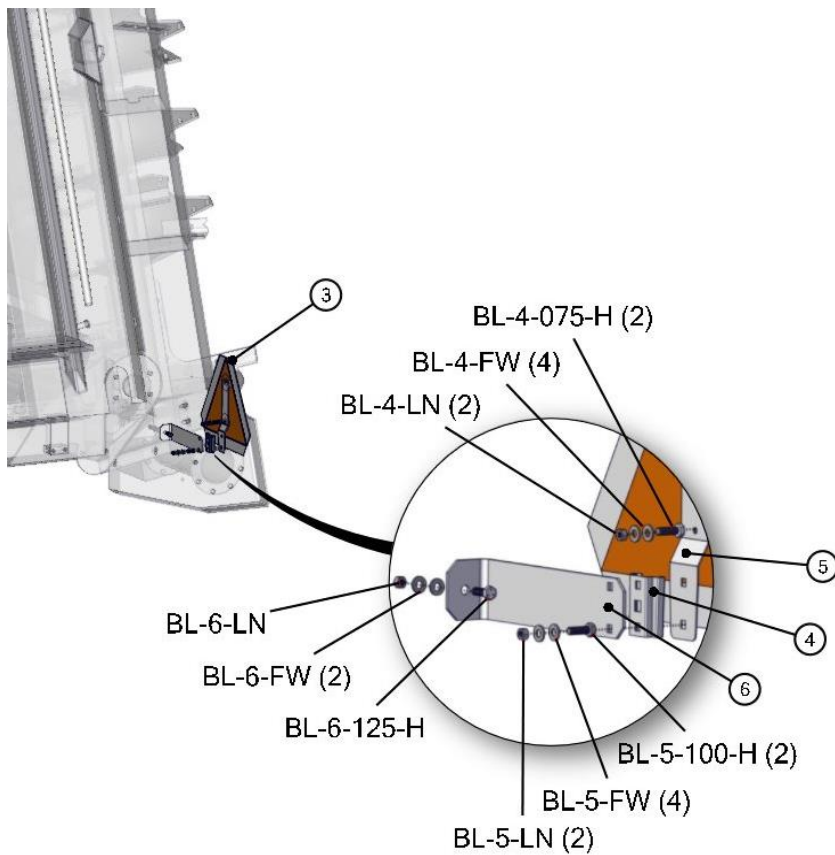
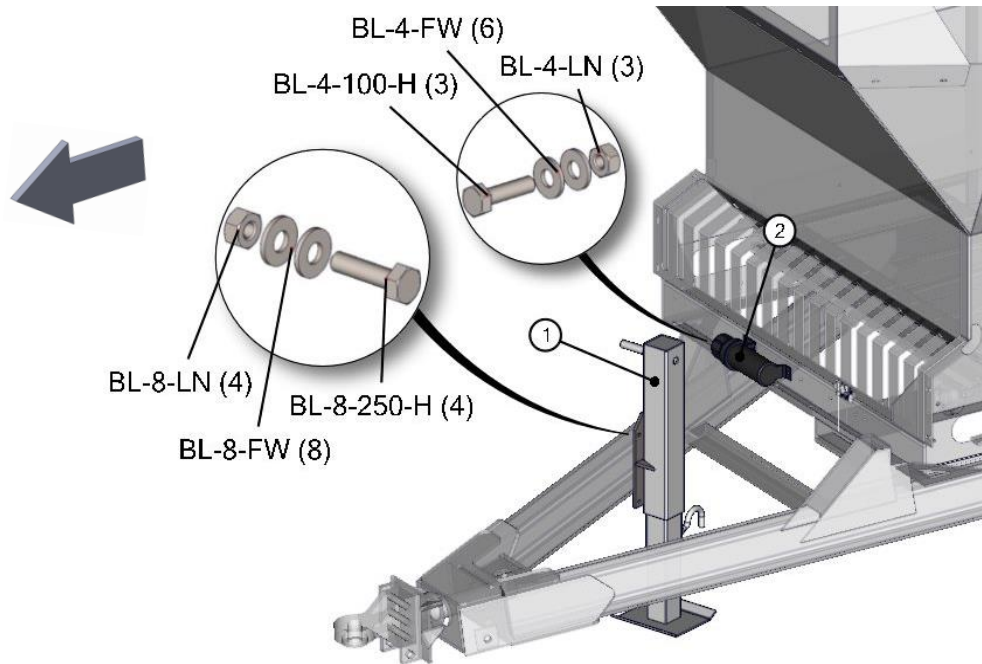
7415-6-01 SAFETY CHAIN

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	FRM-3172	Safety Chain, Agricultural, 60,600 lb. Capacity	1		
102	BL-16-FW	1 FW ZC	2		
103	BL-16-400-H	1 X 4 HH BOLT ZC G5	1		
104	BL-16-LN	1 LN w/ NYLON INSERTS	1		



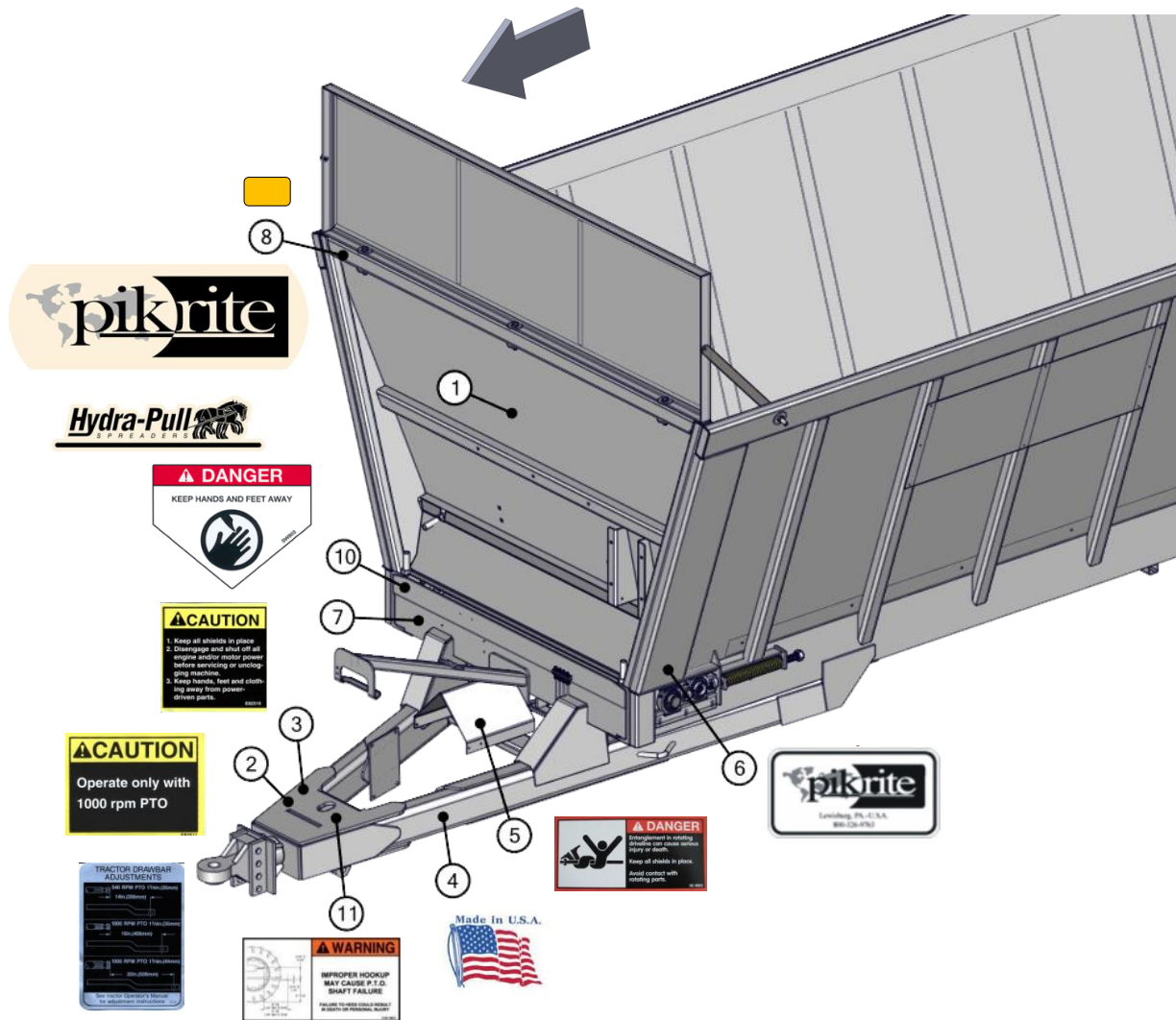
7419-6-02 ACCESSORIES

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	WH-1131	Jack, 1880 Spreader	1		
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	PR63006	Bracket, SMW Sign, Gearbox Mount	1		
100	BL-12-150-H	3/4-10 X 1-1/2 HH G5 ZC	1		
101	BL-12-FW	3/4 FW	1		
102	BL-12-LW	3/4 LW	1		
103	BL-12-N	3/4-10 NUT	1		
104	BL-4-125-H	1/4-20 X 1-1/4 HEX CAP G5 ZC	5		
105	BL-4-075-H	1/4-20 X 3/4 HH C/S BOLT G5 ZC	2		
106	BL-4-FW	1/4 USS FW ZC	10		
107	BL-4-LW	1/4 SPLIT LW ZC	4		
108	BL-4-N	1/4-20 HEX FIN NUT ZC	4		
109	BL-4-LN	1/4-20 HEX LN NE ZC	3		



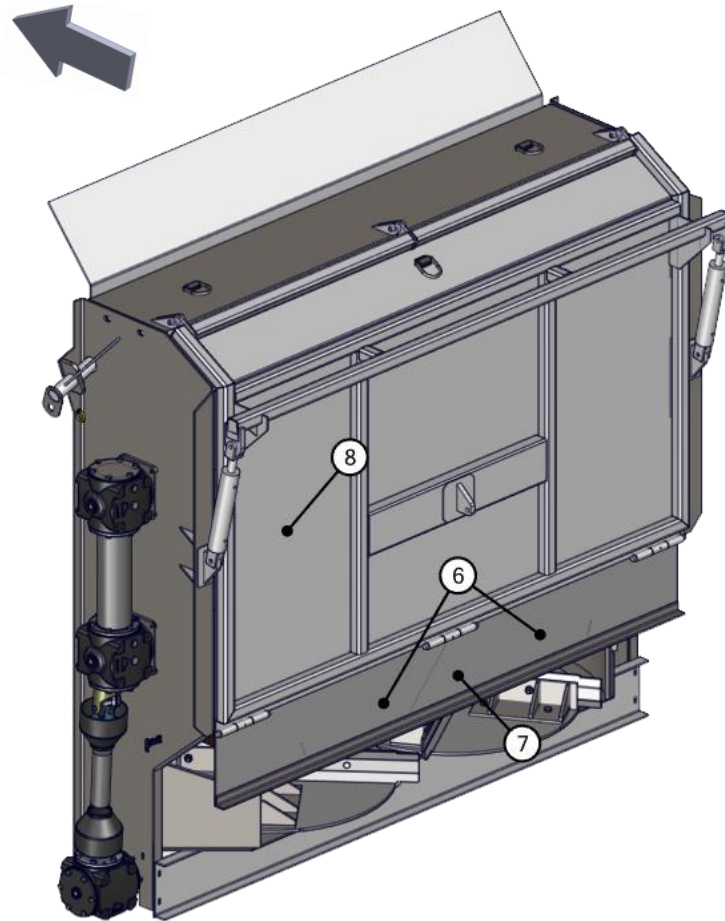
7415-6-04 DECALS ON FRONT OF SPREADER

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
	MAN-0060	Manual, Parts & Operation, HP880 Spreader	1		
1	DC-0103	Pikrite/Hydra-Pull Spreaders 14.23" x 22.8"	1		
2	DC-0022	Decal, Tractor Drawbar Adjustments	1		
3	DC-0021	Decal, Caution, 1000 rpm PTO	1		
4	DC-0011	Decal, All, "Made in USA", White Back w/ Red & Blue Letters	1		
5	DC-0025	Decal, Danger, Entanglement In Rotating Drive	2		
6	DC-4W	Decal, Logo, White, 5.25" Long, Tanks, 1/29/99	1		
7	DC-0023	Decal, Caution, Keep All Shields In Place	1		
8	DC-0034	Decal, Amber, Reflector, Spreader	2		
10	DC-1174	Decal, Danger Keep Hands and Feet Away	2		
11	DC-0013	Decal, "Improper Hookup May Cause PTO Shaft Failure, Harvesters	1		
101	RI-3-6-P	Pop Rivets 3/16 x 3/8 Domed, .375 head, ea.	2		



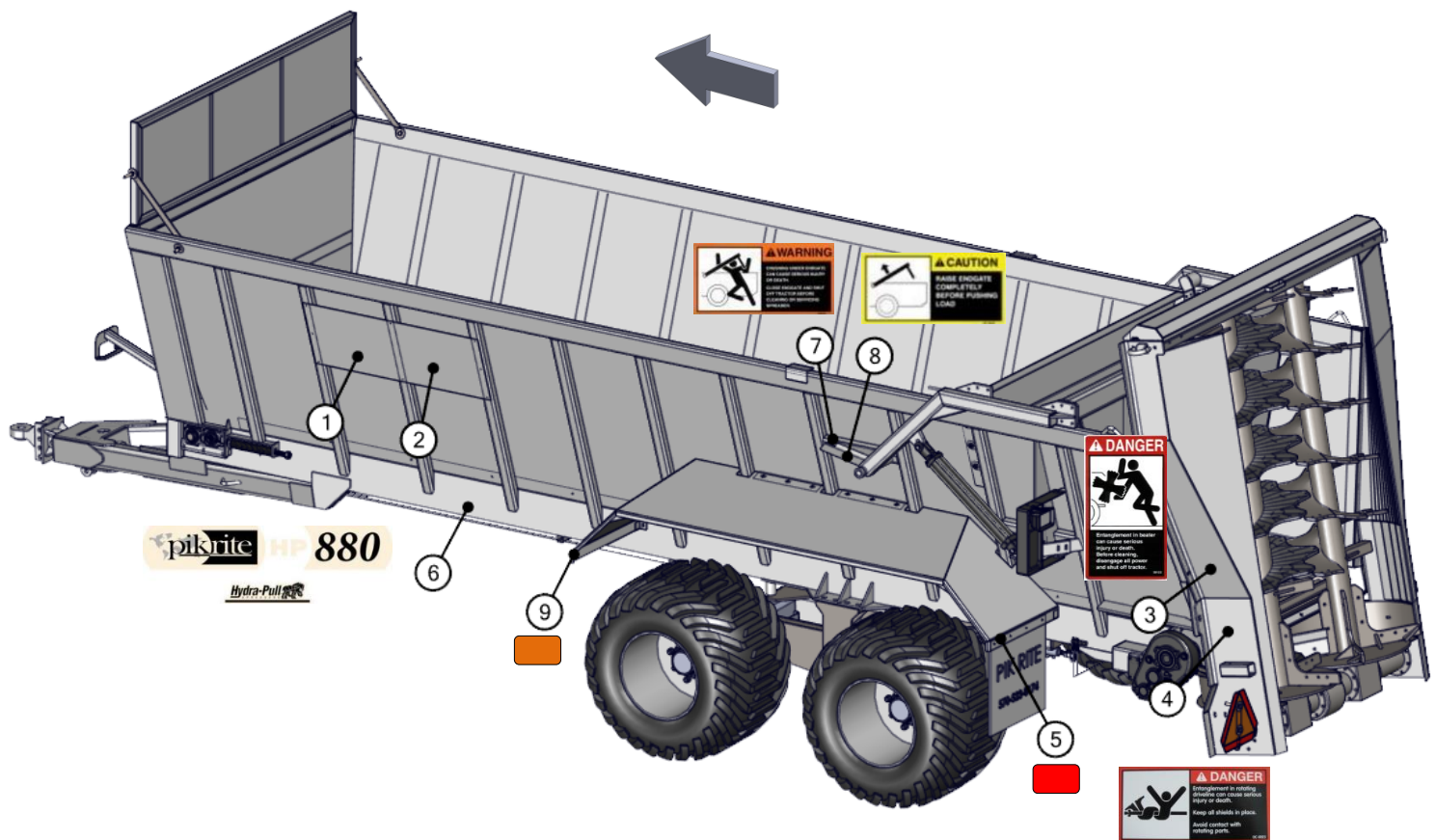
7421-6-04A DECALS ON COMPOST

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
6	DC-ARROW	Decal, Yellow Direction Arrow	2		
7	DC-1184	Danger Decal, 3" x 16"	1		
8	SMV-D	SMV Sign, Decal	1		



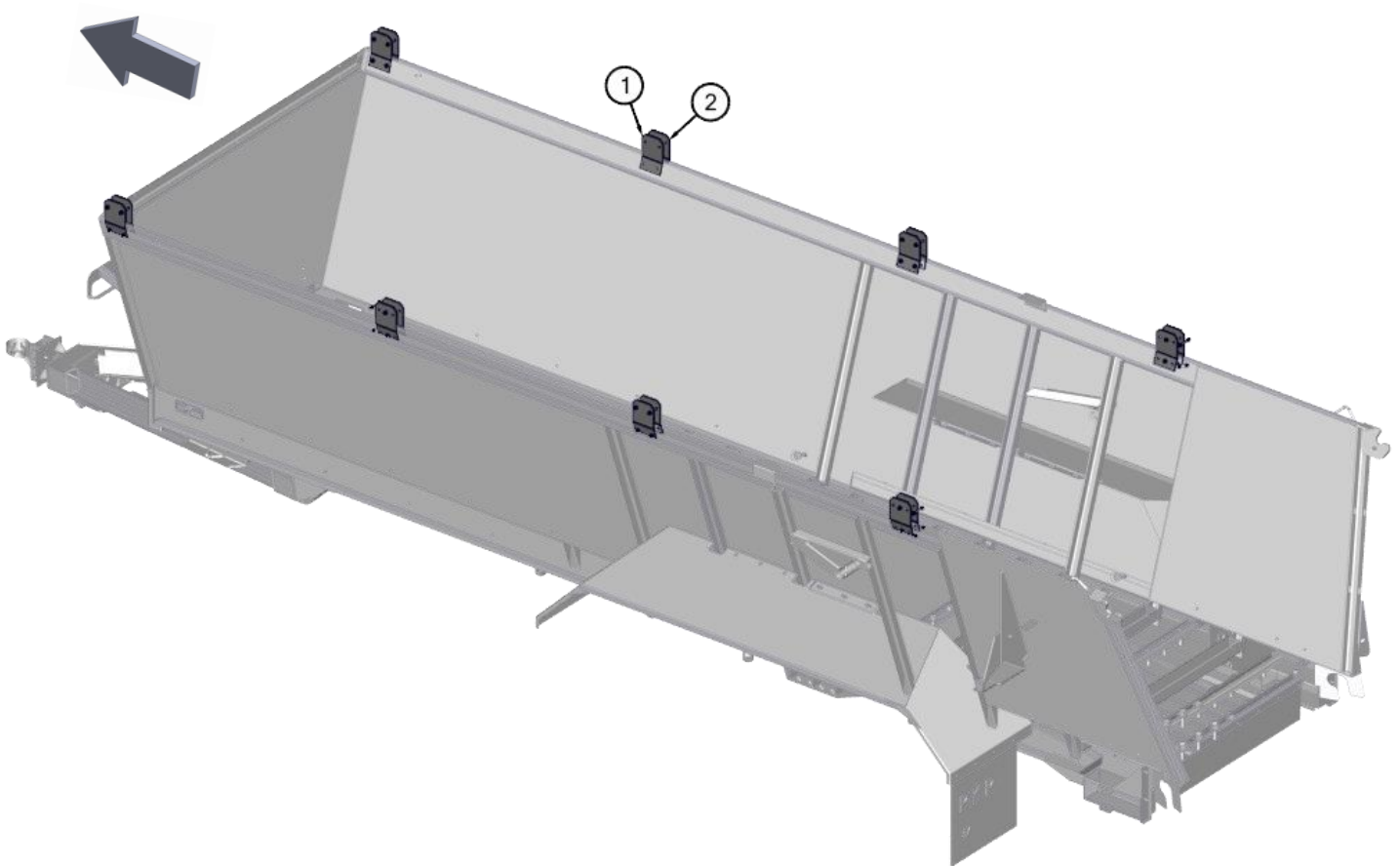
7415-6-05 DECALS ON SIDES OF SPREADER

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	DC-4W	Decal, Logo, White, 5.25" Long, Tanks, 1/29/99	2		
2	DC-0110	Pikrite/Hydra-Pull/HP880 Spreaders 14.23" x 46.38"	2		
3	DC-0030	Decal, Danger, Entanglement In Beater	2		
4	DC-0025	Decal, Danger, Entanglement In Rotating Drive	2		
5	EL-1227	Decal Reflector, Rectangle, Red, 2x3.5, Adhesive	2		
6	DC-3025	Red and White Reflective Tape @ 150 ft Roll	0.14667		
7	DC-0026	Decal, Warning, Crushing Under Endgate	4		
8	DC-0038	Decal, Caution, Raise Endgate Completely	2		
9	DC-0034	Decal, Amber, Reflector, Spreader	2		



7415-6-06 OPT. SIDE EXTENSIONS, BOLT-ON WITHOUT BOARD

REF	PART	DESCRIPTION	QTY	WILL FIT SN	REMARKS
1	PR62000-W	Board Bracket	8		
2	PR62000-X	Board Mount, Outside	8		
100	BL-6-SW	3/8 SAE FW ZC	64		
101	BL-6-350-H	3/8-16 X 3-1/2 HEX CAP G5 ZC	32		
102	BL-6-LN	3/8-16 FIN H LN NE A563 GA ZC	32		



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 operator's 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: HP880

DEALER: _____

SERIAL NUMBER: _____

ADDRESS: _____

PURCHASE DATE: _____

PHONE: _____

SALESMAN: _____

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