

PB-SXIC1050



# SXI

1050

## Owner/Operator's Manual & Parts Book

Starting 2023 Model Year



2/24/2026

# 1.0 IMPORTANT INFORMATION

The serial number plate is located on the front left-hand side.

Please enter the model, serial number and additional information in the space provided for future reference.



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

Spreader Body Serial No. \_\_\_\_\_

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

Dealership \_\_\_\_\_

Dealership Phone No. \_\_\_\_\_

**Always use your serial number when requesting information or when ordering parts.**

## HOW TO READ THE SERIAL NUMBER

EXAMPLE: SXI231050201

Model Type / Model Year / Model / Sequence Of Build



**SXI**

**23**

**1050**

**201**

Meyer Manufacturing Corporation  
674 W. Business Cty Rd A  
Dorchester, WI 54425  
Phone: 1-800-325-9103  
Fax: 715-654-5513  
Email: [parts@meyermfg.com](mailto:parts@meyermfg.com)  
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## 2.0 PRE-DELIVERY & DELIVERY CHECK LIST

### MEYER MANUFACTURING CORPORATION

Phone: 715-654-5132 • Toll-Free: 1-800-325-9103 • P.O. Box 405 • Dorchester, WI 54425

This Pre-Delivery & Delivery Check List must be gone through by the Selling Party and the Customer to validate the Owner's Registration Form.

#### PRE-DELIVERY CHECK LIST

After the new Meyer Spreader has been completely set-up, check to be certain it is in correct running order before delivering it to the customer.

The following is a list of points to inspect:

**Check off each item as you have made the proper adjustments and found the item operating satisfactorily. Any adjustments made, MUST be according to specifications defined in this manual.**

- All shields and guards are in place and securely fastened.
- All bolts and other fasteners are secure and tight.
- All mechanisms operate trouble free.
- All grease fittings have been lubricated, gear boxes filled to proper levels and all roller chains are oiled. Refer to 8.2 LUBRICATION.
- PTO shields turn freely.
- All roller chain and belt springs adjusted properly for automatic tensioning. Refer to 8.3 ADJUSTMENTS.
- All stop/tail/turn lights work properly.
- All decals are in place and legible.

#### DELIVERY CHECK LIST

The following check list is an important reminder of valuable information that MUST be passed on to the customer at the time the unit is delivered.

**Check off each item as you explain it to the customer.**

- Explain to the customer that pre-delivery check list was fully completed.
- Give customer the Owner & Operator's Manual. Instruct to read and completely understand its contents BEFORE attempting to operate the spreader.
- Explain and review with customer the new Meyer Spreader manufacturer's warranty.
- Show the customer where to find the serial number on the implement.
- Explain and review with the customer the SAFETY PRECAUTIONS on page 14.
- Explain and review with customer the proper "Start-up and Operating Procedures" sections of this manual.
- Demonstrate the PTO Shaft Locking Device and proper PTO shaft storage. Also, demonstrate proper hydraulic hose storage and tip holder used to keep system clean from contaminants.
- Explain that regular lubrication and proper adjustments are required for continued proper operation and long life of the spreader. Review with the customer the 8.2 LUBRICATION and 8.3 ADJUSTMENTS sections of this manual.
- Explain and review with customer the recommended loading and unloading procedures for different types of manure.
- Fully complete this PRE-DELIVERY & DELIVERY CHECK LIST with the customer.



## 3.0 INTRODUCTION

*Congratulations on your purchase of a new Meyer farm equipment product. Undoubtedly you have given much consideration to your purchase and we're proud that you have selected Meyer. Pride in craftsmanship, engineering and customer service have made Meyer products the finest in the farm equipment industry today.*

*There is no substitute for quality. That is why thousands of people like you have purchased Meyer farm equipment. They felt it was the best equipment to serve their farming needs, now and in years to come. We ask that you follow our policy of "safety first", and we strongly suggest that you read through the "Owner / Operator's Manual & Parts Book" before operating your Meyer farm equipment. Meyer Manufacturing Corporation wants to thank you for not compromising quality. We are determined to offer excellence in customer service as well as provide you with the very best value for your dollar.*

*Sincerely,*

*All Employees of*  
**MEYER MANUFACTURING CORPORATION**

---

The SXI spreader is available as a pull-type unit pulled and powered by a farm tractor.

When the PTO is referred to, it means power take-off from the tractor.

The SXI spreader may be referred to as 1050, SXI, implement, spreader or machine in this manual.



**IMPORTANT:** You are urged to study this manual and follow the instructions carefully. Your efforts will be repaid in better operation and service as well as a savings in time and repair expense. Failure to read this manual and understand the machine could lead to serious injury. If you do not understand instructions in this manual, contact either your dealer or Meyer Manufacturing Corp. at Dorchester, WI 54425.



**WARRANTY:** At the front of this manual is an "Owner's Registration Form". Be sure your dealer has completed this form and promptly forwarded a copy to Meyer Manufacturing to validate the manufacturer's warranty. The product model and serial number are recorded on this form and on the inside of the front cover for proper identification of your Meyer implement by your dealer and the manufacturer when ordering repair parts. The serial number plate is located on the front left hand side.



**REPAIR PARTS:** At the back of this manual is the repair parts section. All replacement parts are to be obtained from or ordered through your Meyer dealership. When ordering repair parts, refer to the parts section and give complete information including quantity, correct part number, detailed description and even model number and serial number of the implements which needs repair parts.

**Manufacturer's Statement:** Meyer Manufacturing Corporation reserves the right to make improvements in design, or changes in specifications at any time, without incurring any obligation to owners of units previously sold. This supersedes all previous published instructions.



## 4.0 MANUFACTURER'S WARRANTY

11/2014

### MEYER SXI SPREADER

- I The "Owner's Registration Form" must be completed in full and promptly returned to Meyer Mfg. Corp. for this warranty to become both valid and effective. All warranties on new Meyer Implements shall apply only to the original retail customer from an authorized Meyer Mfg. Corp. dealership.
- II This warranty shall not apply to any Meyer Implement which has been subjected to misuse, negligence, alteration, accident, incorrect operating procedures, has been used for an application not designed for or preauthorized by Meyer in writing, has had the serial numbers altered, or which shall have been repaired with parts other than those obtained through Meyer Mfg. Corp. Meyer is not responsible for the following: Depreciation or damage caused by normal wear, lack of reasonable and proper maintenance, failure to follow the operator's manual recommendations or normal maintenance parts and service. Meyer is not responsible for rental of replacement equipment during warranty repairs, damage to a power unit (including but not limited to a truck or tractor), loss of earnings due to equipment down time, or damage to equipment while in transit to or from the factory or dealer.
- III Meyer Mfg. Corp. warrants new Meyer Implements to be free from defects in material and workmanship under recommended use and maintenance service, as stated in the "Owner / Operator's Manual & Parts Book" as follows:
- A. Meyer Mfg. Corp. will repair or replace F.O.B. Dorchester, WI, as Meyer Mfg. Corp. elects, any part of a new implements which is defective in material or workmanship:
    - i Without charge for either parts or labor during the first (1) year from purchase date to the original retail customer.
  - B. In addition to the above basic warranty, Meyer Mfg. Corp. will repair or replace F.O.B. Dorchester, WI as Meyer Mfg. Corp. elects:
    - i Any part of the following which is defective in material or workmanship (not neglect to recommended use and service) with a "pro-rated" charge for parts only (not labor) during the stated time period from date of purchase to the original retail customer:  
  
Seven (7) Years: a. The spreader tank body is warranted against rust through (Pro-rated parts only). Parts included, front and rear end panels, side panels and auger trough.
- IV COMMERCIAL USE: Coverage as in paragraph III.A.i. ONLY, except warranty coverage is for (90) days for parts and labor to the original commercial retail customer.
- V Repairs eligible for labor warranty must be made by Meyer Mfg. Corp. or an authorized Meyer dealership. The original retail customer is responsible for any service call and/or transportation of the Implement to the dealership or factory for warranty service.
- VI Except as stated above, Meyer Mfg. Corp. shall not be liable for injuries or damages of any kind or nature, direct, consequential, or contingent, to persons or property. This warranty does not extend to loss of crop or for any other reasons.
- VII No person is authorized to give any other warranties or to assume any other obligation on Meyer Mfg. Corp.'s behalf unless made or assumed in writing by Meyer Mfg. Corp. This warranty is the sole and exclusive warranty which is applicable in connection with the manufacture and sale of this product and Meyer Mfg. Corp.'s responsibility is limited accordingly.

#### Purchased Product Warranty:

This warranty does not apply to component parts not manufactured by Meyer such as but not limited to wheels, tires, tubes, PTO shafts, clutches, hydraulic cylinders, scales, tarps, etc.



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## 5.0 SAFETY

The Meyer implement is manufactured with operator safety in mind. Located on the implement are various safety signs to aid in operation and warn of danger or caution areas. Pay close attention to all safety signs on the implement.

Carefully follow the operating and maintenance instructions in this manual and all applicable safety laws. Failure to follow all safety procedures may result in serious injury or death.

**Before attempting to operate this implement, read and study the following safety information. In addition, make sure that every individual who operates or works with the implement, whether family member or employee, is familiar with these safety precautions.**

**Meyer Mfg. Corp. provides guards for exposed moving parts for the operator's protection; however, some areas cannot be guarded or shielded in order to assure proper operation. The operator's manual and safety signs on the implement itself warn you of dangers and must be read and observed closely!**



### Safety Alert Symbol

This symbol is used to call attention to instructions concerning personal safety. Be sure to observe and follow these instructions. Take time to be careful!

---



**DANGER**

The signal word **DANGER** on the machine and in the manual identifies a hazardous situation which, if not avoided, WILL result in death or serious injury.



**WARNING**

The signal word **WARNING** on the machine and in the manual indicates a potentially hazardous situation which, if not avoided, COULD result in serious injury or death.



**CAUTION**

The signal word **CAUTION** on the machine and in the manual indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury. It may also be used to alert against unsafe practices.

**IMPORTANT**

This notice identifies procedures which must be followed to avoid damage to the machine.

Danger, Warning, Caution, and instructional decals and plates are placed on the equipment to protect anyone working on or around this machine, as well as the components of the machine. All personnel operating or maintaining this equipment must familiarize themselves with all Danger, Warning, Caution, and instructional decals and plates.

## 5.1 SAFETY PRECAUTIONS

 **CAUTION**



**All individuals who will operate this implement must read and completely understand this Owner / Operator's and Parts Manual. Operator must receive instructions before operating the machine. Untrained operators can cause injury or death.**

- DO NOT allow anyone to operate, service, inspect or otherwise handle this implement until all operators have read and understand all of the instructional materials in this Owner / Operator's And Parts Manual and have been properly trained in its intended usage.
- For an operator to be qualified, he or she must not use drugs or alcohol which impair alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he or she can safely operate a machine and the equipment.
- Make sure all personnel can READ and UNDERSTAND all safety signs.
- DO NOT allow minors (children) or inexperienced persons to operate this implement.
- DO NOT operate until all shields and guards are in place and securely fastened.
- DO NOT step up on any part of the implement at any time.
- DO NOT adjust, clean or lubricate while the implement is in motion.
- Inspect when first delivered and regularly thereafter; that all connections and bolts are tight and secure before operating.
- Know how to stop operation of the implement before starting it!
- Make certain everyone is clear of the implement before applying power.
- Keep hands, feet and clothing away from moving parts. Loose or floppy clothing should not be worn by the operator.
- Observe all applicable traffic laws when transporting on public roadways (where legal to do so). Check local laws for all highway lighting and marking requirements.
- Shut off and lock out power before adjusting, servicing, maintaining or clearing an obstruction from this machine. Refer to SHUTOFF & LOCKOUT POWER on page 21.
- Always enter curves or drive up or down hills at a low speed and at a gradual steering angle.
- Never allow riders on either tractor / truck or equipment.
- Keep tractor / truck in a lower gear at all times when traveling down steep grades.
- Maintain proper brake settings at all times (if equipped).
- Stay well clear of the spreader's rear discharge spinners while operating.
- Do not step over the power take-off shaft. Stay clear of PTO at all times.
- **When towing the implement on public roads**, a safety chain of sufficient strength to support the gross weight of the implement must be used. (See Maximum Load Weight Chart in ADJUSTMENTS on page 36). The safety chain should be attached per diagram in section Safety Chain on page 28.
- Use only properly rated undercarriage and tires.

## **Safety Precautions For Tractor Towed Units:**

- Do not exceed 20 mph (32 kph). Reduce speed on rough roads and surfaces.
- Always install a SMV emblem on pull-type equipment when transporting on roadways and keep clean and bright.
- Always yield to oncoming traffic in all situations and move to the side of the road so any following traffic may pass.
- Comply with state and local laws governing highway safety and movement of machinery on roadways.

## **Safety Precautions For Hydraulic System:**

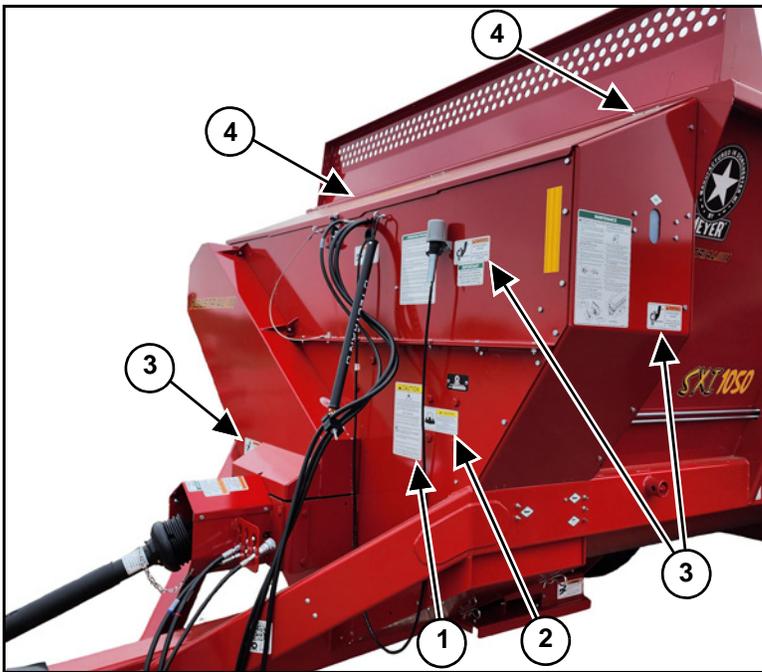
- Check hydraulic tubes, hoses and fittings for damage and leakage. Never use hands to check for leaks. Hydraulic tubes and hoses must be properly routed and have adequate support and secure clamps. Tighten or replace any parts that show leakage.
- Always clean fluid spills. Do not use gasoline or diesel fuel for cleaning parts. Use commercial nonflammable solvents.

## 5.2 SAFETY SIGNS



Read all safety signs on the implement and in this manual. Keep all safety signs clean and replace any damaged or missing safety signs before operating the equipment. Do not remove any safety signs. Safety signs are for operator protection and information.

FRONT OF SPREADER

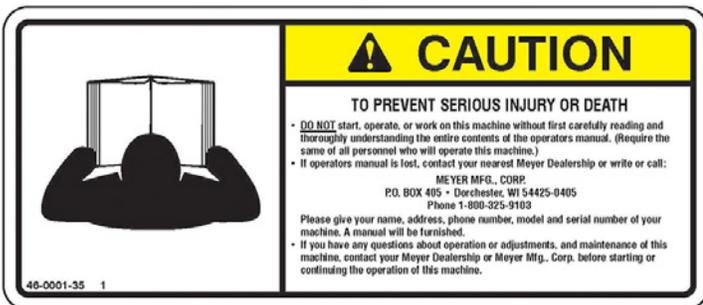


3



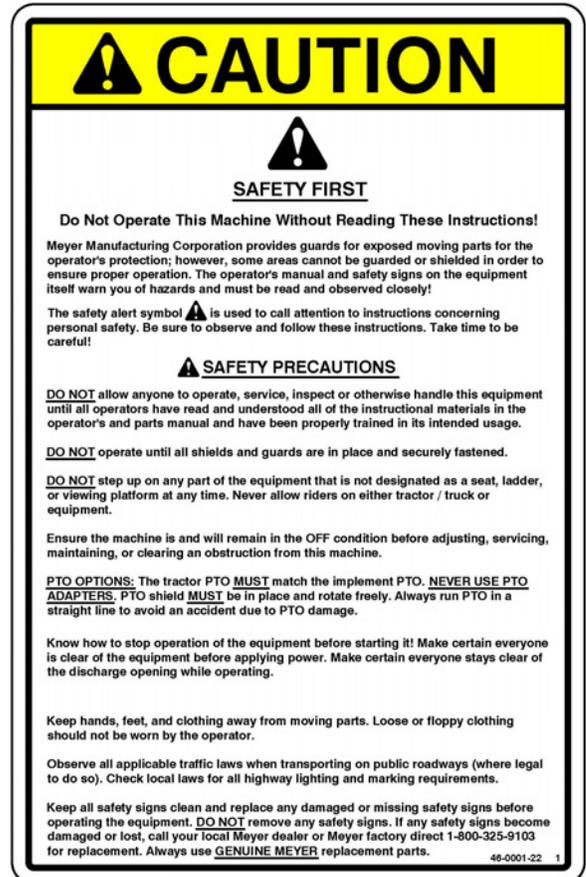
PART NO. 46-0001-4

2



PART NO. 46-0001-35

1



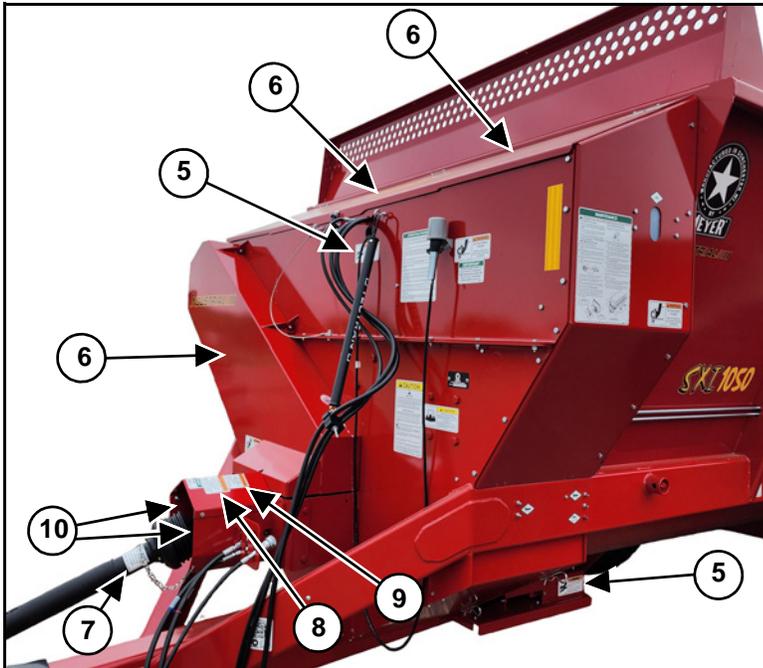
PART NO. 46-0001-22

4



PART NO. 46-0001-5

FRONT OF SPREADER



5



PART NO. 46-8500-7

6



PART NO. 46-0001-26  
(Located Under Shield)

9



PART NO. 46-3600-9

7



PART NO. 46-0001-13

10



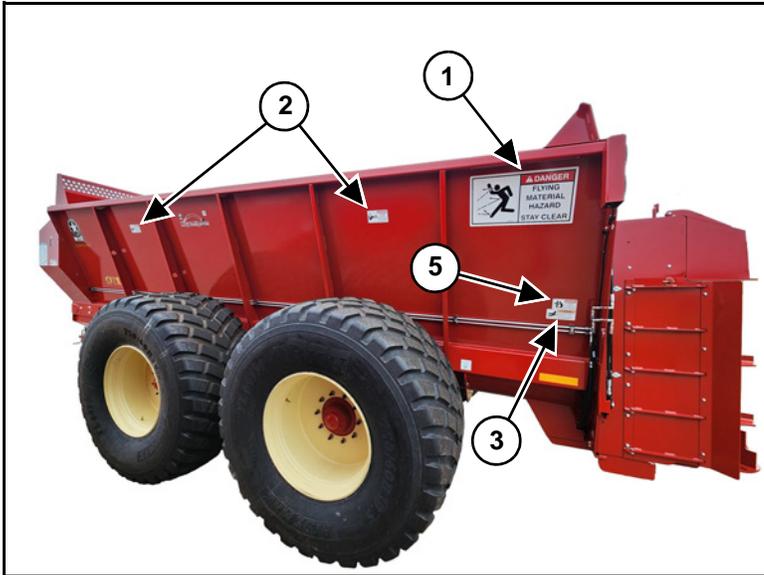
PART NO. 46-3600-2  
(Located Under Shield)

8



PART NO. 46-0004-2

**LEFT SIDE OF SPREADER**



**PART NO. 46-8865-4**



**PART NO. 46-0001-5**



**PART NO. 46-8500-7**



**PART NO. 46-9500-4**



**PART NO. 46-3600-9**

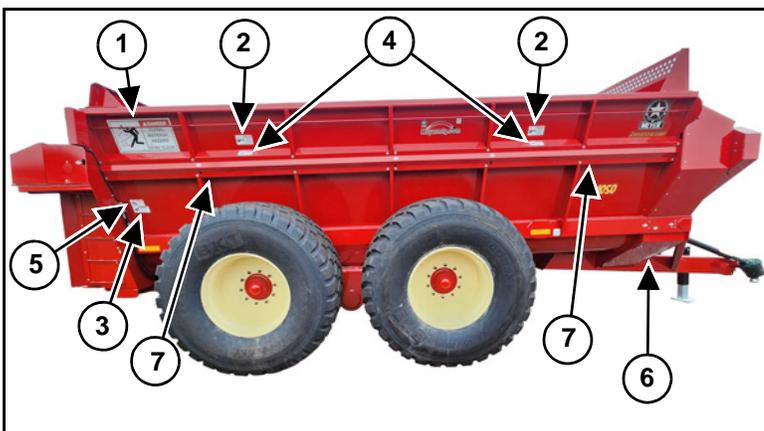


**PART NO. 46-0001-4  
(Both Sides)**

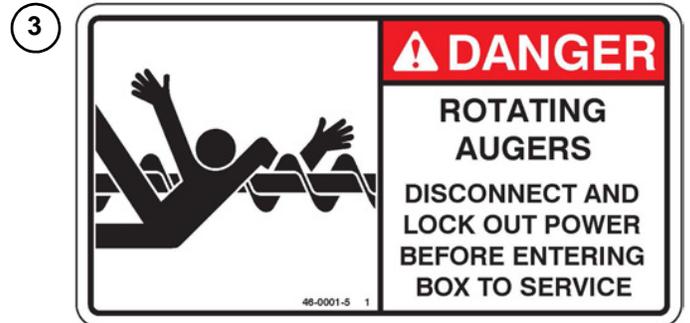


**PART NO. 46-3600-2  
(Located Under Shield)**

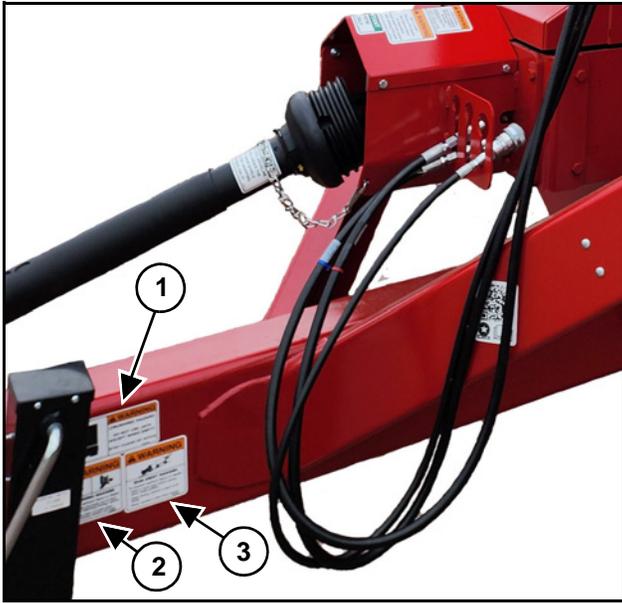
**RIGHT SIDE OF SPREADER**



REAR OF SPREADER



REAR OF SPREADER



PART NO. 46-3600-6



PART NO. 46-0800-6



PART NO. 46-0800-7

## 5.3 SHUTOFF & LOCKOUT POWER



Any individual that will be adjusting, servicing, maintaining, or clearing an obstruction from this machine needs to ensure that this machine stays safely OFF until the adjustment, service, or maintenance has been completed, or when the obstruction has been cleared, and that all guards, shields, and covers have been restored to their original position. The safety of all individuals working on or around this machine, including family members, are affected. The following procedure will be referred to throughout this manual, so be familiar with the following steps.

### 5.3.1 Shutoff & Lockout Power Recommendations

#### 1. Think, Plan and Check

- a. **THINK** through the entire procedure and identify all the steps that are required.
- b. **PLAN** what personnel will be involved, what needs to be shut down, what guards/shields need to be removed, and how the equipment will be restarted.
- c. **CHECK** the machine over to verify all power sources and stored energy have been identified including engines, hydraulic and pneumatic systems, springs and accumulators, and suspended loads.

#### 2. Communicate - Let everyone involved, including those working on or around this machine, that work is being done which involves keeping this machine safely "OFF".

#### 3. Power Sources

- a. **LOCKOUT** - Shut off engines and take the key, or physically lock the start/on switch or control. Disconnect any power sources which are meant to be disconnected (i.e. electrical, hydraulic, and PTO of pull-type units).
- b. **TAGOUT** - Place a tag on the machine noting the reason for the power source being tagged out and what work is being done. This is particularly important if the power source is not within your sight and/or will need to be isolated for a longer period of time.

#### 4. Stored Energy - Neutralize all stored energy from its power source. Ensure that this machine is level, set the parking brake, and chock the wheels. Disconnect electricity, block movable parts, release or block spring energy, release pressure from hydraulic and pneumatic lines, and lower suspended parts to a resting position.

#### 5. Test - Do a complete test and personally double check all of the above steps to verify that all of the power sources are actually disconnected and locked out.

#### 6. Restore Power - When the work has been completed, follow the same basic procedures, ensuring that all individuals working on or around this machine are safely clear of the machine before locks and tags are removed and power is restored.

**IMPORTANT**

It is important that everyone who works on this equipment is properly trained to help ensure that they are familiar with this procedure and that they follow the steps outlined above. This manual will remind you when to SHUTOFF & LOCKOUT POWER.



## 6.0 PRE-OPERATION



Always keep all shields and guards in place and securely fastened. Keep hands, feet and clothing away from moving components.



**DO NOT** allow anyone to operate, service, inspect or otherwise handle this implement until all operators have read and understand all of the instructional materials in this Owner / Operator's and Parts Manual and have been properly trained in its intended usage.

Verify that the implement is securely hitched to the tractor/truck.

Verify that all electrical/hydraulic connections and bolts/hardware are tight and securely fastened before operating the implement.

Wear safety glasses to prevent eye injury when any of the following conditions exist:

- When fluids are under pressure.
- Flying debris or loose material is present.
- Tools are being used.

### 6.1 STATIC INSPECTION



Hydraulic fluid escaping under pressure can have sufficient force to cause injury. Keep all hoses and connections in good serviceable condition.

Before operating the spreader for the first time and each time thereafter, check the following items:

1. Check that all safety signs are in good and legible condition.
2. Inspect the spreader for proper adjustments. Refer to 8.2 LUBRICATION.
3. Lubricate the equipment. Refer to 8.2 LUBRICATION.
4. Make sure all guards and shields are in place, secured and functioning as designed.
5. Check condition of all hydraulic components for leaks. Repair or replace as required.
6. Check the hydraulic and gear box oil level. Refer to 8.2 LUBRICATION.
7. Remove any twine, wire or other material that has become entangled around the rear spinners and augers.
8. Check to see that no obstructions are present in the spreader. Be sure that there are no tools laying on or in the spreader.
9. Verify that all electrical and hydraulic connections are tight and secure before operating.
10. Check that all hardware is in place and is tight.
11. Watch for any worn or cracked welds. If found, have qualified personnel repair immediately or replacement is necessary.
12. Check all bearings for wear. Replace as needed.
13. Some parts will wear due to use. It is highly recommended to replace critical safety items such as a hitch that has worn through the "Wear Plate" or is less than three quarters of its original thickness.
14. Inspect the tires for excessive wear or damage and inflate to the recommended pressure. Refer to 8.6 WHEELS AND TIRES.
15. Inspect the condition of axles, o-beams, spindles, and safety lighting. Repair or replace as required.
16. Check that the brakes are clean and are in good working order. Refer to 8.5 BRAKES.
17. Inspect the tension and condition of the spinner drive belts. Replace if worn or damaged. Refer to 8.3.9 Front Spinner Drive Belt.

## 6.2 LIGHT HOOK-UP

**NOTE: The lighting system provided is intended for being transported by an agricultural tractor.**

Ensure that lights and indicators are clean and in good working order. When attaching to a towing vehicle other than a tractor always check lighting for proper operation as wiring may vary. Connect to the standardized 7-pin socket located at the back of the tractor.

Color	Function	SAE Terminal	SAE Connector
White	Ground	1	 <p>Viewed From Back</p>
	Not Used	2	
Yellow	Left Turn & Hazard	3	
	Not Used	4	
Green	Right Turn & Hazard	5	
Brown	Tail Lights	6	
	Auxiliary Power	7	

**Note: Depending on make and model of the truck, it may be necessary to install a light converter. (Meyer part #56-0028). The converter allows signal lights and brake lights to operate according to DOT Lighting Standards.**

## 6.3 HYDRAULIC HOOK-UP



Hydraulic fluid escaping under pressure can have sufficient force to cause injury. Keep all hoses and connections in good serviceable condition.

Whenever working on any part of the hydraulics, safely relieve hydraulic pressure before starting.

## IMPORTANT

Do not exceed maximum PSI or a motor failure could result.

Tractor hydraulic system does not exceed 3000 PSI.

Call the factory if additional information is needed.

**Note: The PTO horsepower and/or hydraulic requirements may not reflect adequate tractor size for towing the machine.**

## 6.4 PTO DRIVELINE OPTION



Do not operate without PTO guard on implement and tractor. Maintain PTO drive shaft guard in good operating condition. Replace them if damaged and not turning freely.

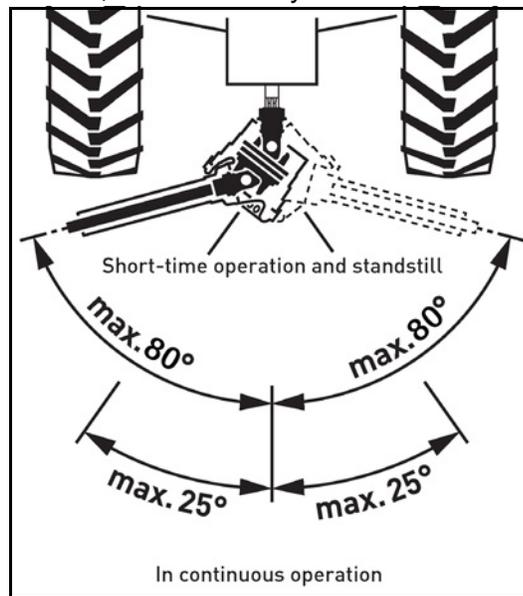


Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

The tractor half of the PTO drive shaft assembly must be locked securely to the tractor output shaft and the implement half of the PTO drive shaft assembly must be locked securely to the implement driveline.

See the PTO Installation, Service, and Safety Instruction Manual for additional PTO details. For a replacement manual, call the factory at 1-800-325-9103.

See the ADMA Safety Manual for further safety situations and precautions, ensure all operators become familiar with it. For a replacement manual, call the factory at 1-800-325-9103.

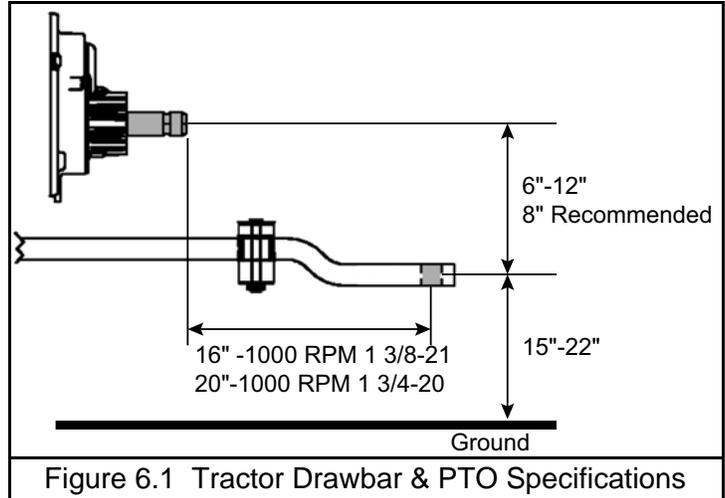


Do not exceed the maximum 80° turning angle on the constant velocity PTO driveline. Exceeding the turning angle will damage the constant velocity “center housing” and exerts excessive pressures on the PTO input center shaft and related bearings.

## 6.5 TRACTOR DRAWBAR SETUP

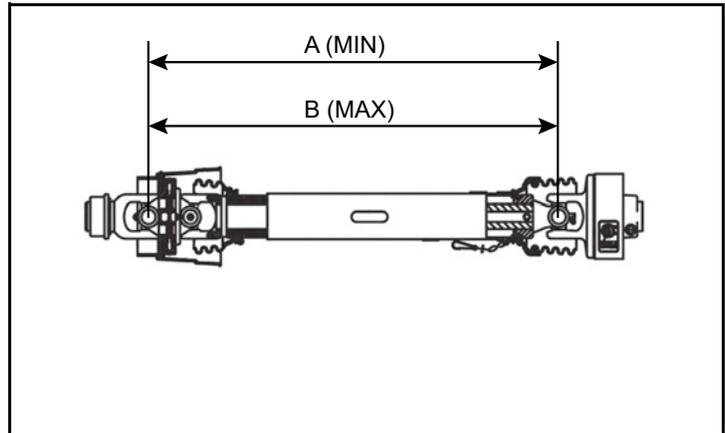
Do not operate 1000 RPM implements at 540 RPM. No PTO adapter should be used to alter speed or geometry.

Set the tractor drawbar to conform to the standard dimensions as shown. An improperly located hitch point may cause damage to the universal joints of the PTO drive shaft. This will ensure that the PTO drive shaft will not be over extended.



An improperly positioned hitch point may cause damage to the universal joints of the PTO drive shaft. Conforming to the standard 16" or 20" drawbar & PTO relationship will ensure that the PTO drive shaft will not become over-extended.

With initial hook-up to your implement test PTO travel by turning equipment in both directions observing the minimum (A) and maximum (B) travel dimensions.



PTO PART NUMBER	A	B
918-0512	50"	68.70"

## 6.6 HITCHING TO TRACTOR



### WARNING

Do not allow anyone to stand between the tongue or hitch and the tractor when backing up to the implement.

Before hitching to the tractor, make sure that there is sufficient ballast on the front axle of the tractor.

Depending on conditions, the ballast weight needs to be adjusted to optimize tractor drive. The front axle load must never, under any circumstances, be less than 20% of the tractor's unladen weight.

Move to the operator's position, start the engine and release the parking brake.

Move the tractor in front of the spreader. Slowly move the tractor backwards towards the spreader and align the drawbar with the implement's hitch.

**Note:** Lower or raise the spreader jack to properly align the drawbar and hitch.

Fasten the spreader hitch to the tractor drawbar with a properly sized hitch pin with safety retainer. (Reference ANSI/ASABE AD6489-3 Agricultural vehicles - Mechanical connections between towed and towing vehicles - Part 3: Tractor drawbar.) (See your Trailer / Chassis manual for further details.)

Before operation and after hitching the tractor to the implement, connect the hydraulic hoses, light cord and PTO drive shaft to the tractor. Slide the spring loaded locking collar onto the PTO yoke rearward, and then slide the yoke onto the tractor PTO shaft. Release the spring loaded collar. Be sure the pins fall into the groove of the tractor PTO shaft and that the collar snaps forward into the locked position. Move the tractor hydraulic controls to observe proper gate operation. Connect any optional equipment as needed.

See section 6.6.1 Jack Storage to store the jack properly.

### 6.6.1 Jack Storage

After hitching the spreader to the tractor.

Using the handle, raise the jack off the ground and remove the pin. Move the jack to the storage mount (Item 1) located on the front left hand side of the spreader drive enclosure. Store in a horizontal position. Reinstall the pin to lock the jack into the transport position.

**Note:** Keeping jack stored in proper position will keep it from getting damaged during transportation.

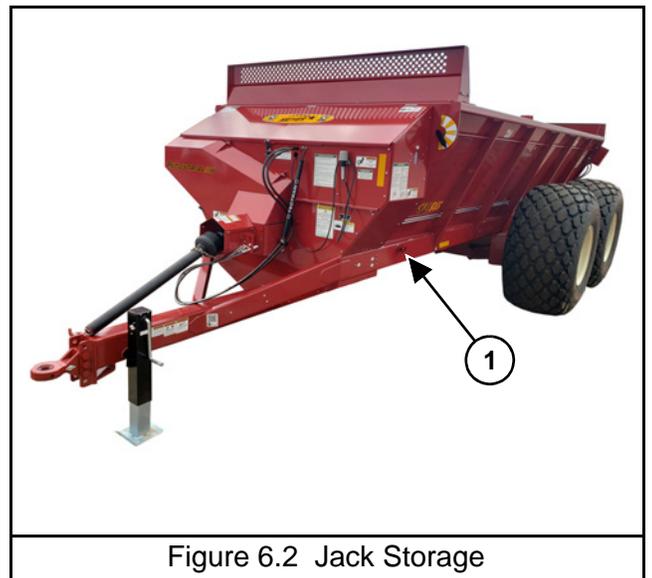


Figure 6.2 Jack Storage

## 6.7 START-UP AND SHUT-DOWN



### **WARNING**

Disengage electric/ hydraulic power, engage the machine's parking brake, stop the engine and make sure all moving components are completely stopped before connecting, disconnecting, adjusting or cleaning this equipment.

Always keep all shields and guards in place and securely fastened.

Keep hands, feet and clothing away from moving components.



### **CAUTION**

Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

**DO NOT** allow anyone to operate, service, inspect or otherwise handle this implement until all operators have read and understand all of the instructional materials in this Owner / Operator's and Parts Manual and have been properly trained in its intended usage.

Before operating the implement, look in all directions to ensure there are no bystanders, especially small children, in the work area.

### 6.7.1 Start-Up

1. Make sure spreader is empty.
2. Enter the tractor and start the engine.
3. Slowly engage the PTO and operate at idle speed.

### 6.7.2 Shut-Down

1. Disengage the PTO.
2. Park the spreader on a flat, level surface.
3. Engage the parking brake, stop the engine and exit the tractor.

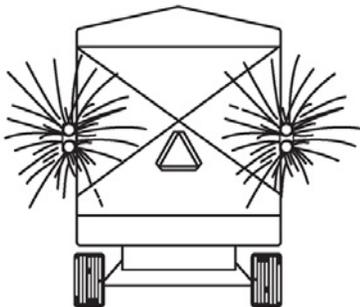
## 6.8 TRANSPORTING

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### CAUTION

- DO NOT allow anyone to operate, service, inspect or otherwise handle this implement until all operators have read and understand all of the instructional materials in this Owner/ Operator's and Parts Manual and have been properly trained in its intended usage.
  - Before operating the implement, look in all directions to ensure there are no bystanders, especially small children, in the work area.
  - No riders allowed when transporting.
  - Do not drink and drive.
  - Before moving, be sure required lights and reflectors are installed and working.
  - Before maintenance or repair, stop vehicle, set parking brake, and remove ignition key.
  - Place safety stands under frame and chock wheels before working on tires or chassis.
  - Maintain wheel bolts at torque as recommended in the manual.
  - If equipped with brakes, maintain proper adjustment.
- 

### CAUTION



#### PULL-TYPE UNITS

- Use flashing warning lights when transporting on ALL highways (public roadways) at ALL times (Tractor towed models) EXCEPT WHEN PROHIBITED BY LAW! (Check w/local law enforcement).
  - Adhere to all state and federal laws. Implement lights do not replace the SMV (Slow-Moving Vehicle) identification emblem. All towed agricultural vehicles must display SMV emblems when traveling LESS than 20 mph (32 kph).
  - Check for traffic constantly. Be sure you can see that no one is attempting to pass you and that all traffic is sufficiently clear from you before making any turns.
  - Securely attach to towing unit. Use a high strength appropriately sized hitch pin with mechanical retainer and attach safety chain.
  - Do not exceed 20 mph (32 kph). Slow down for corners and rough terrain.
- 

### WARNING



- Shift to lower gear before going down steep grades
  - Avoid traveling on slopes or hills that are unsafe
  - Keep towing vehicle in gear at all times
  - Never exceed a safe travel speed (may be less than 20 MPH)
- 

### WARNING

You must observe all applicable traffic laws when transporting on public roadways. Check local laws for all highway lighting and marking requirements.

(Tractor Powered) Do not tow at speeds in excess of 20 mph.

# IMPORTANT

Verify that the rear discharge door is in the closed position before traveling on roadways.

If you will travel on public roads and it is legal to do so, you must know all rules governing such operation. This will include lighting and brake requirements in addition to traffic rules.

**Note:** An optional highway lighting package is available to assist in meeting these requirements. See your Meyer dealer for details.

## 6.8.1 Safety Chain

The chain must be of adequate size to hold the weight of the loaded implement.

**Note:** If using a grab hook at the end(s) of the chain to secure the chain to itself, a hook latch (Item 1) must be installed.

The length of the safety chain is not to be any longer than necessary to turn without interference. If any chain links or attachment hardware are broken or stretched, repair before using. Store chain so it does not corrode or become damaged. Do not use this chain for other implements because the strength and length of the chain may not be adequate. Identify this chain for use on this particular implement.

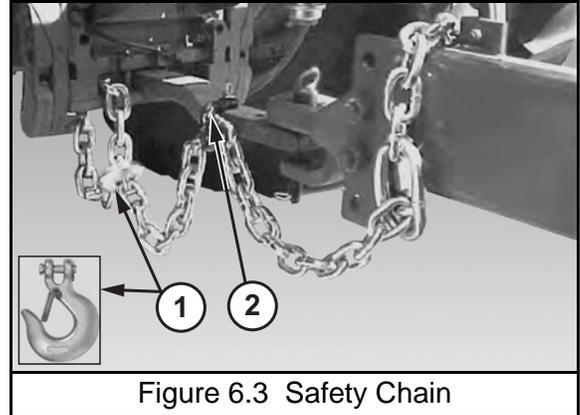


Figure 6.3 Safety Chain

**Note:** Do not use the intermediate support (Item 2) as the attaching point.

# IMPORTANT

If you do not have a safety chain, or a replacement safety chain is needed, see your local Meyer dealer and do not operate on public roads until you are able to travel with the safety chain properly installed.

## 6.8.2 Tractor Towing Size Requirements

Use the following charts to help calculate the minimum tractor weight when towing without implement brakes. The minimum tractor weight, up to 20 mph (33 kph) needs to be two thirds of the box Gross Weight (GW). Gross Weight is calculated by the empty weight of the box and undercarriage combined added to the Load Weight. Then take the Gross Weight and multiply it by 0.667 and you will get the Minimum Required Weight of the Tractor. A tractor with this recommended weight for your machine is normally adequate for towing the loaded machine under average conditions.

**Note:**  $\text{Implement Loaded Weight} \times 0.667 = \text{Minimum Tractor Weight Up to 20 mph}$

Model	MAXIMUM IMPLEMENT GROSS WEIGHT (LBS)	MINIMUM TRACTOR WEIGHT UP TO 20 MPH (LBS)
1050		

### 6.8.3 Brake Information (Optional)

Two optional brake systems are offered for your spreader. A brake system is recommended for any spreader operated on public roads and may be a requirement.

#### 6.8.3.1 Lever Operated Hydraulic Brakes

The brake system is connected to the tractor's selector control valves (SCV) and is controlled by the tractor's in-cab controls.

Applying hydraulic pressure from the tractor causes tractor hydraulic fluid to activate the 1050 cylinders which apply the brakes.

**Applying The Brakes** - Gradually activate the tractor spool valve lever forward to apply the brake. The hydraulic hoses should be connected to the tractor port so the spool valve lever gives the expected response. Test this after hooking up. If response is opposite of expected, switch hose to opposite port.

**Releasing The Brakes** - Move the tractor spool valve lever to "the float" position.

**IMPORTANT**

When brakes are not required, the selector control valve lever must be in the "float" position.

#### 6.8.3.2 Pedal Operated Hydraulic Brakes



**CAUTION**

At no time should the brake system be used as a parking brake. With loss of hydraulic pressure, the brakes will lose their holding power.

This brake system is a one hose system. The single hydraulic hose must be connected to the tractor remote pedal port.

**Applying The Brakes** - Gradually apply the tractor brake pedal to apply the brakes.

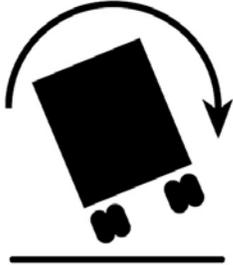
**Releasing The Brakes** - Release the tractor brake pedal to release the brakes.



## 7.0 OPERATION

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### CAUTION



- **DO NOT** allow anyone to operate, service, inspect or otherwise handle this implement until all operators have read and understand all of the instructional materials in this Owner/ Operator's and Parts Manual and have been properly trained in its intended usage.
- **Before operating the implement, look in all directions to ensure there are no bystanders, especially small children, in the work area.**
- **Do not climb or step on any part of the implement at any time.**
- **Turn on level ground. Slow down when turning.**
- **Go up and down slopes, not across them.**
- **Keep the heavy end of the machine uphill.**
- **Do not overload the machine.**
- **Check for adequate traction.**

---

### 7.1 OPERATIONAL CHECKS

### DANGER

Make certain all personnel are clear of the implement and the rotating spinners or beaters before applying power.

### WARNING

Always keep all shields and guards in place and securely fastened. Keep hands, feet and clothing away from moving components.

### CAUTION

Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

**DO NOT** allow anyone to operate, service, inspect or otherwise handle this implement until all operators have read and understand all of the instructional materials in this Owner / Operator's and Parts Manual and have been properly trained in its intended usage.

**Before operating the implement, look in all directions to ensure there are no bystanders, especially small children, in the work area.**

Before running material through the spreader for the first time and each time thereafter, follow these steps:

1. Follow the Start-Up procedure section 6.7.1 Start-Up.
2. Raise and lower the gate a couple times.
3. Operate the spreader for approximately 5-10 minutes.
4. Follow the Shut-Down procedure section 6.7.2 Shut-Down.
5. Check drive components to be sure components are not abnormally hot.
6. Check all hydraulic components for leaks.
7. Adjust and lubricate equipment as needed. See Section 8.3 ADJUSTMENTS and Section 8.2 LUBRICATION.

**NOTE: Check chain oiler reservoir oil level. See Section 8.2.9 Automatic Chain Oiler.**

## 7.2 LOADING

### CAUTION

Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

### IMPORTANT

Do not use the jack except when the implement is empty. The jack does not support added weight. Unbalanced weight may result in unexpected "TIP UP" of the implement.

Filling the spreader evenly from the front to rear ensures there is downward force on the tractor hitch and provide traction for the tractor wheels.

This machine is not intended to be a bale grinder, hay chopper or bedding machine. Failure to comply may damage the drivetrain and void the warranty.

It is unlawful to allow manure to splash or leak onto public roads.

To prevent damage to spinners and drivelines, foreign objects (stones, concrete, timber, metal or large frozen chunks of manure) should never be loaded into the spreader.

Overloading may cause failure of axles, tires, structural members, hitches, loss of vehicle control. DO NOT exceed maximum gross weight.

Before loading, especially in freezing weather, make sure the augers and spinners are free to rotate and the rear gate moves freely up and down.

Ensure the rear end gate is completely closed before loading, to prevent packing of material into the beaters and to help prevent leakage during transport.

When the spreader is parked for loading, shift the tractor to neutral or park and set the brakes.

**NOTE: Maximum Gross Weight is the lesser value between the implement, chassis or tires.**

### IMPORTANT

Overloading can have detrimental effects on the integrity of the spreader and its safe use. Some materials such as lime sludge may not be able to be filled to struck level. Overloading voids warranty and increases risk to the operator's safety. Always be aware of the gross weight.

MATERIAL ESTIMATED WEIGHT PER CUBIC FOOT	
MATERIAL	(LBS / CU. FT.)
Lime Sludge	110 - 115 lbs.
Dry Feedlot Manure	63 - 65 lbs.
Chicken Litter	63 - 65 lbs.
Cake Sludge	62 - 65 lbs.
Semi-Solid Manure	58 - 60 lbs.
Pen Packed Manure	30 - 35 lbs.
Liquid Manure	63 - 65 lbs.
SAE D384.2	

MODEL	MAXIMUM SPREADER GROSS WEIGHT	TOTAL NET WEIGHT (LBS)	CU. FT. CAPACITY**	CAPACITY IN GALLONS
1050	100,000	24,880	682	5,100

\*\* Struck capacity, heaped loads significantly increase weight.

When starting to fill the spreader, center the bucket just forward of the axle to maintain proper weight distribution. Continue to fill the spreader evenly while loading.

A hydraulic lid is available to aid in the containment of liquids.

### 7.3 UNLOADING



**Make certain all personnel are clear of the implement and the rotating spinners or beaters before applying power.**



**Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.**



**The unloading process described is to be performed by the operator alone. This will eliminate unexpected “start-ups” and minimize other hazards that could result by more than one person in control.**

**NOTE: Unload is best observed from the operator’s seat.**

1. Move the tractor/truck and spreader to the unloading area.
2. When ready to begin spreading application on the field: Open the rear gate and slowly engage the tractor PTO.

For liquid and semi-liquid manure, the rear gate can limit the application rate by how far it is opened. The gate indicator on the front of the box provides a reference for the amount of opening.

For solid manure (dry, pen-packed or manure containing long straw or hay) the rear gate must be completely open since this material is not free flowing.

The rear spinners have been designed and tested to provide the best spread pattern for most liquids and semi solid manure. However, the pattern varies for each specific condition. The factors that contribute most to differing patterns and widths are moisture content and the amount and length of bedding material. For most typical conditions, the spread pattern should be uniform and about 25-35 ft. wide. When this is the case, plan the spreading patterns to not have to travel over previously spread manure which can be slippery, resulting in poor traction. Traction on wet grass is also poor. When the resulting pattern requires overlapping during spreading, use precautions on slopes and hills where loss of traction on previously spread manure can be a factor.

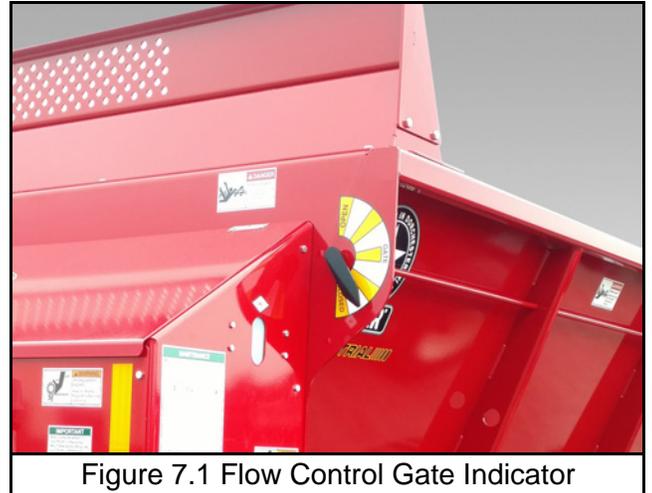


Figure 7.1 Flow Control Gate Indicator

**NOTE: Further control of the application rate is possible by the relationship of tractor engine speed to ground speed (transmission gear selection). For optimum, trouble-free performance it is recommended to operate at or near engine PTO speed.**

3. When the spreader is empty, idle the tractor and stop the PTO.
4. Close the rear gate.

**NOTES:**

- ***Failure to idle the tractor before disengaging the PTO causes roller chain over-running and damage to the chain tighteners.***
- ***Maximum life of the PTO shaft universal joints results if you stop the PTO while making turns at the end of the field.***

### **7.3.1 PTO Cutout Clutch**

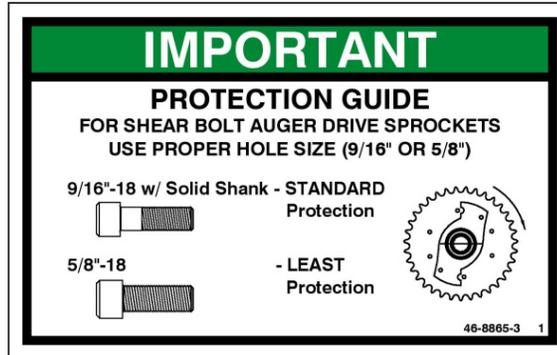
Spreaders are equipped with a cutout type clutch on the implement half of the PTO driveline. The clutch is designed to limit the amount of torque transferred to the machine through the driveline. If excessive torque is developed, the clutch will disengage. A loud ratcheting sound will be heard and the transfer of power to the machine will be disrupted. To re-engage the machine, turn the PTO to off and allow the driveline to come to a stop. The PTO can then be re-engaged to restart the spreader. The cutout clutch will either re-engage upon shut down of the PTO or just before it comes to a complete stop.

The cutout clutch will disengage if start up is done in an abrupt or reckless manner. It will also disengage from foreign materials entering the expeller area of the spreader. It may also disengage if the apron speed is too fast for the expellers to properly remove the manure from the spreader. If PTO clutch fails to re-engage it will be necessary to remove the foreign object from the spreader before restarting.

## 7.4 SHEAR SPROCKET

The Meyer Spreader has been equipped with a shear sprocket design on the main auger drive sprockets. The augers are being driven by two Allen head grade 8 bolts. The design is such that if the bolts are sheared, another set of holes to install new shear bolts are always be accessible without turning over the machine.

The plate sprocket is set up with the initial drive bolts being 9/16" diameter. Install the new bolts in the proper way as to drive off of **THE HEAD** of the bolt, not on the nut.



PART NO.	DESCRIPTION
831-5618-1.50-SL	9/16"-20 x 1-1/2" Allen Head Cap Bolt
884-5618	9/16"-20 Top Locknut Grade 8
831-6318-1.5	5/8"-18 x 1-1/2" Allen Head Cap Bolt
884-6318	5/8"-18 Top Locknut Grade 8

## 7.5 FREEZING WEATHER OPERATION



**Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.**

Allow spreader to completely empty the last of its contents, shutoff and lockout power and allow all movement to stop before attempting to clean the spreader.

Scrape clean any remaining debris from inside the rear of the spreader.(Augers, Rear Gate, & Spinners). Make certain that all personnel are clear of the spreader and the rotating spinners before slowly engaging the PTO. Operate the spreader several minutes to clean manure scrapings and to allow any remaining manure and the spreader to freeze dry. Hydraulically run the rear gate up and down to clean the gate slides. Park the spreader with the gate halfway open.

Before loading in freezing weather, make sure augers and spinners are free to rotate, and the rear gate moves freely up and down.

## 7.6 UNHOOKING THE TRACTOR



### **WARNING**

Keep hands, legs and feet from under tongue and hitch until jack is locked into place.

**Jack is not designed to support the implement when it is loaded.**

1. Park the implement on level ground. Put the tractor controls in neutral, set the parking brake, and turn the engine off before dismounting.
2. Place wheel chocks in front and in back of the implement wheels on opposite sides to prevent the implement from rolling after the tractor is unhooked.
3. Disconnect the PTO drive shaft.
4. Remove the hydraulic hose ends from the tractor hydraulic ports and secure the hose ends in the key slot holes on the front of the spreader to keep them clean.
5. Remove the light cords and any optional equipment connections.
6. Remove the jack from the storage mount and reinstall the jack on the hitch tongue. Crank the jack down until the hitch lifts off the tractor drawbar.
7. Remove the hitch pin.
8. Unhook safety chain from tractor drawbar and intermediate support.
9. Slowly drive the tractor away from the implement.

## 8.0 MAINTENANCE

### 8.1 GENERAL



**CAUTION**

Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

**IMPORTANT**

When welding do not allow electrical current to flow through bearings, roller chains, or scale weigh bars. Ground the welder directly to the part being welded. Always disconnect the power cord from scale indicator before welding.

### 8.2 LUBRICATION



**CAUTION**

Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

**IMPORTANT**

Fluid such as hydraulic fluid, grease, etc., must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

Failure to grease the CV center housing and telescoping members will reduce the life of the CV joint.

#### **NOTES:**

- *Use a grease type that is composed of a high quality lithium complex or better, unless otherwise stated. We recommend using a #1 grade in colder temperatures or a #2 grade in warmer temperatures.*
- *We recommend using a 4-jaw grease coupling to allow greasing of both imperial and metric style grease fittings.*
- *Over lubrication is a major cause of bearing failures. Please lubricate conservatively when unsure of bearing requirements.*
- *Do not mix synthetic and mineral oils.*
- *It is very important that the quantity of oil in the gearboxes does not exceed what is indicated. An excessive quantity of oil in the gearboxes would cause a rise in temperature, and therefore shorten its life.*
- *\*Estimating 5 minutes of run time per load.*

### 8.2.1 Daily Lubrication (Every 8-12 Loads\*)

- Ⓛ1 Grease (3) nylon bearings that support both augers and the second reduction jack shaft. The bearings are grease line fitted to the lower zerks on the right front side and left front side grease banks of the spreader. Over greasing is not possible.
- Ⓛ2 Keep oil reservoir full with new 30 weight oil for chain lubrication. The automatic chain oiler will lubricate the chains every time the rear gate cylinder is opened. The oil reservoir is accessible by opening the front shield.
- Ⓛ3 Maintain the oil levels in the (3) gearboxes using each gearbox's sight glass. Check regularly for any observable oil leakage around the input or output shaft seals. If leakage is found, replace seals. Lubricate the (3) gearboxes with Synthetic EP Gear SAE 90/ISO220 oil.

### 8.2.2 Every 8 Hours

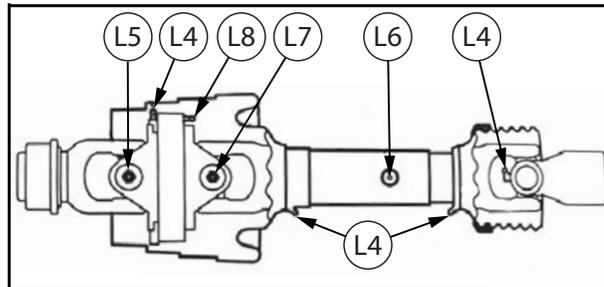
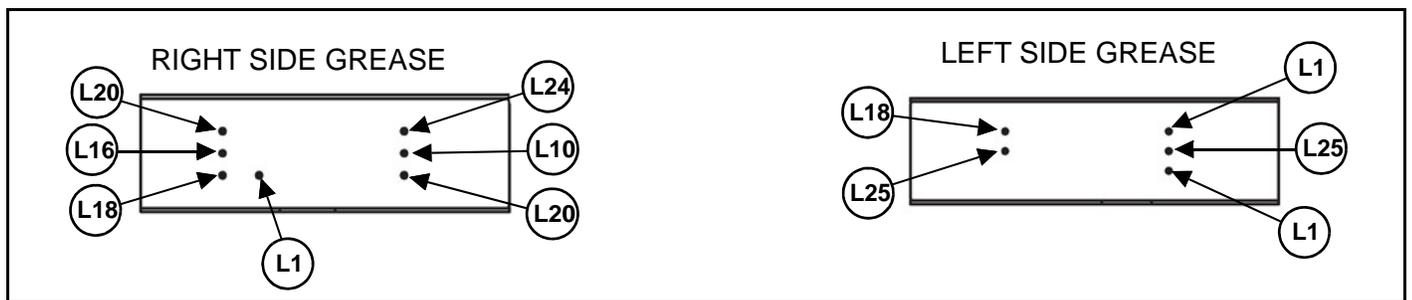
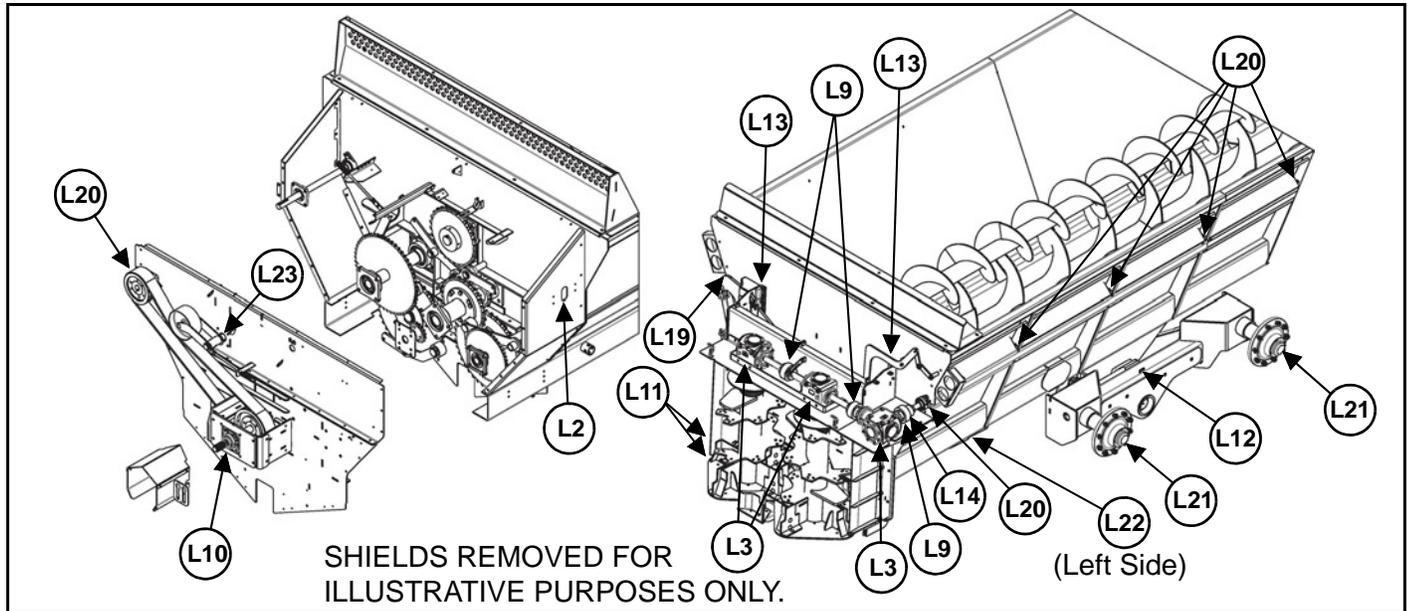


Figure 8.1 PTO Lubrication points

- Ⓛ4 Grease PTO (4) places every 8 hours of operation.
- Ⓛ5 Lubricate the outer CV cross kit with about 5 pumps of grease every 8 hours of operation.
- Ⓛ6 Grease telescoping members until it adequately covers the sliding members every 8 hours. Take apart occasionally to make sure adequate lubrication is being added. Take apart each season to be cleaned with solvent and re-coated with grease before re-assembling.
- Ⓛ7 Lubricate the inner CV cross kit with about 15 pumps of grease every 8 hours of operation.
- Ⓛ8 Lubricate the double yoke with about 10 pumps of grease every 8 hours of operation.

### 8.2.3 Weekly Lubrication (Every 65-70 Loads\*)



- (L9) Lubricate (3) chain couplers on the rear drive with new 30 weight oil. The couplers are accessible by opening the front and rear shield.
- (L10) Grease (2) PTO input shaft bearings with approximately 1 pump of grease. The bearings are accessible on the left side of the PTO cover shield.
- (L11) Grease (2) rear spinner lower bearings with approximately 2 pumps of grease. The bearings are grease line fitted to the left rear frame channel of the spreader.
- (L12) Grease (2) tandem wing pivots. Over greasing is not possible.
- (L13) Grease (2) rear gate slide guides. Grease the slide guides from the top side with the rear gate opened. Allow grease to lubricate rear gate ends and slide guide surfaces. In freezing weather, dump used motor oil down each slide guide once a week or more often if needed. Over greasing is not possible.
- (L14) Grease (1) integral overrunning clutch on the spinner transfer shaft connection to the corner gearbox.

#### 8.2.4 Monthly Lubrication (Every 260-300 Loads\*)

- L15 Grease (2) jack assembly zerks located on the front face of the jack and grease (2) hitch zerks.
- L16 Grease the (1) front drive bearing supporting the third auger drive shaft with approximately 2 pumps of grease. The zerk is accessible by the left front side grease bank of the spreader. Be careful not to over grease.
- L17 Grease the (2) front drive bearings supporting the first reduction drive shaft with approximately 2 pump of grease. The zerks are accessible by the right front side grease bank of the spreader. Be careful not to over grease.
- L18 Grease the (2) front drive bearing supporting the second and third reduction jack shafts with approximately 3 pump of grease. The zerk is accessible by the left and right front side grease banks of the spreader. Be careful not to over grease.
- L19 Grease (1) nylon bushing supporting the rear shaft of the 3rd auger assembly. The zerk is grease line fitted to the left rear corner of the tank below the light bracket.
- L20 Grease (6) bearings on the right hand side drive shaft with approximately 1 pump of grease. The second bearing is grease line fitted to the right front side grease bank. The front bearing is accessible behind the front belt drive shield. The remaining rear bearings are located along the right hand side of the spreader tank. The zerks are accessible through the steel shielding.
- L21 Grease the hubs through the zerk in each hub. Be careful not to over grease and force the seal out of the back side of the hub.
- L22 Grease (2) T-post hold down sleeve zerks located at the rear right side of the spreader.
- L22 Grease front belt tensioner pivot.
- L24 Grease the (1) front drive bearing supporting the second reduction jack shaft with approximately 2 pumps of grease. The zerk is accessible by the right front side grease bank of the spreader. Be careful not to over grease.
- L25 Grease the hubs through the zerk in each hub. Be careful not to over grease and force the seal out of the back side of the hub.

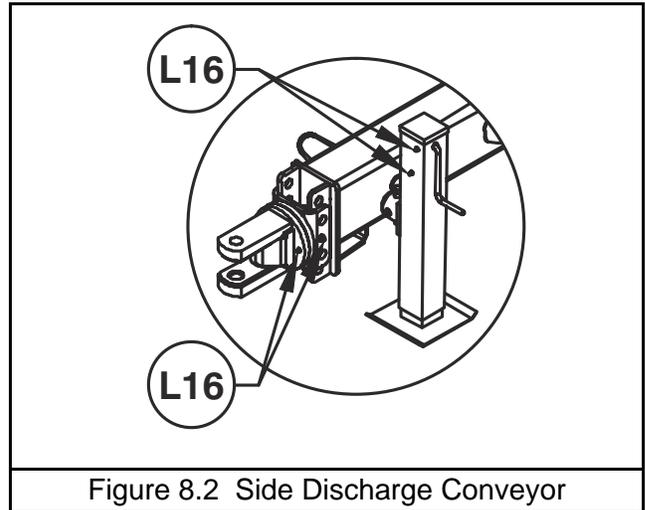


Figure 8.2 Side Discharge Conveyor

### 8.2.5 Break-In Lubrication (First 360-500 Loads\*)

- (L3) Change oil in the (3) gearboxes. Lubricate the (3) rear gearboxes with Synthetic EP Gear SAE 90/ISO220 oil, capacity approximately 81.2 oz.

### 8.2.6 Semi Annually

See ADR-A manual for brake component greasing.

### 8.2.7 Annually

- (L3) Change oil in the (3) gearboxes. Lubricate the (3) rear gearboxes with Synthetic EP Gear SAE 90/ISO220 oil, capacity approximately 81.2 oz.

- (L22) Clean and repack the wheel hubs with axle grease (See 8.2.8 Grease Hubs Procedure).

### 8.2.8 Grease Hubs Procedure

- Use a pressure packer to pack the bearing cones with grease by forcing grease into the cavities between the rollers and cage from the large end of the cone. If a pressure packer is not available, pack the bearings by hand.
- Apply a light coat of grease to the spindle bearing journals.
- Pack the area of the hub between the two bearings with grease up to the smallest diameter of the bearing cups. Remove excess grease.
- Install and tighten the hub retention hardware. Apply a light coat of approved NLGI 1 or 2 grease to the hubcap interior and across the face of the outer locknut. This will indicate that NLGI 1 or 2 grease was used, as well as help prevent corrosion of these parts.

## 8.2.9 Automatic Chain Oiler



**CAUTION**

Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.



**WARNING**

Hydraulic fluid escaping under pressure can have sufficient force to cause injury. Keep all hoses and connections in good serviceable condition.

The automatic chain oiler attachment gives a squirt of clean oil to all roller chains every time that the spreaders rear gate, hydraulic cylinder is activated. In this way, the spreaders roller chains get oiled in direct proportion to the number of hydraulic cylinder cycles of the rear gate. This assures adequate lubrication.

New 30 weight oil, which is placed in the reservoir tank mounted on the spreader is all that is needed to properly lubricate all roller chains and sprockets. The automatic chain oiler does not use any oil from the tractor's hydraulic system. The hydraulic hose connected to the bottom of the oiler pump only serves to power the piston in the pump every time that the spreader's rear gate is opened.

Should the oil reservoir tank run dry, pour about a 1/2 cup of clean 30 weight oil into the tank. Allow time for the oil to run down into the oiler pump slowly and allow air to escape. After thirty minutes to one hour has passed, finish filling the reservoir tank. Make sure that all fittings and brackets are tight when finished filling the tank.

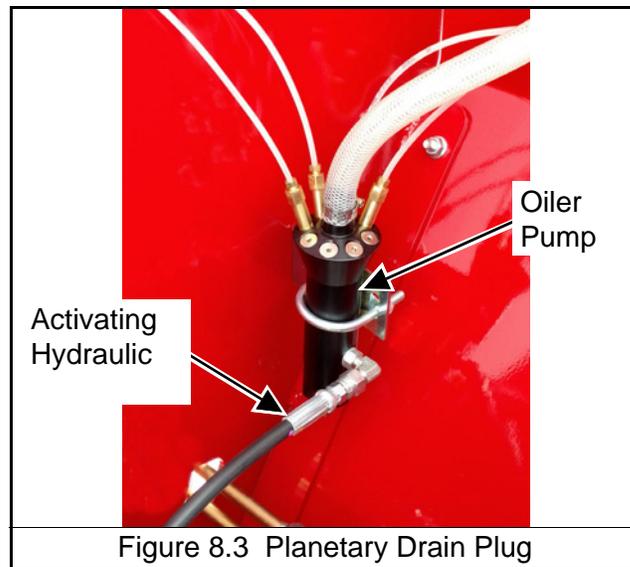


Figure 8.3 Planetary Drain Plug

While running the tractor's hydraulics only, open and close the spreader's rear gate several times. This will cycle the hydraulic cylinder leading to the oiler pump. Keep cycling until oil can be seen in all of the oil lines leading to the oiler brushes. (If you experience problems priming the oiler pump, you may need to bleed air out of the hydraulic hose where it is connected to the pump. Crack the fitting until oil comes out, and then re-tighten.) The hydraulic cylinder that the oiler pump is tied into is double acting and must reach 300 PSI of pressure to actuate the pump.

When replacing oiler brushes into brush holders, use regular 1/2"-20 nuts. Tighten nut finger tight initially as some adjustment may be needed later. For best results, place brush holders over top of roller chains and directly on top of sprockets. Adjust brush holders so oiler brushes are pushed down into the roller chain approximately 1/2". Carefully tighten up the 1/2"-20 nuts on the oiler brushes. DO NOT over tighten as damage to the brush will occur. The plastic threads of the oiler brush will crack and then break off from the brush body.

## IMPORTANT

The 5/32" oil line tubing can only be removed from an oiler brush by pushing in on the red plastic ring and pulling the tubing out while holding the ring down.

The oiler pump is set at the factory to deliver the maximum amount of oil per cycle. If less oil is desired, loosen the jam nut on the bottom of the pump and screw in the adjusting shaft 1/4" or approximately 5 turns. It is not recommended to screw the shaft into the bottom of the oiler pump more than 15 turns as this may not allow for proper lubrication of the roller chains.

## IMPORTANT

Always use new 30 weight oil. In cold weather, use a SAE 10 or a mixture of two parts of 30 weight oil to one part diesel fuel.

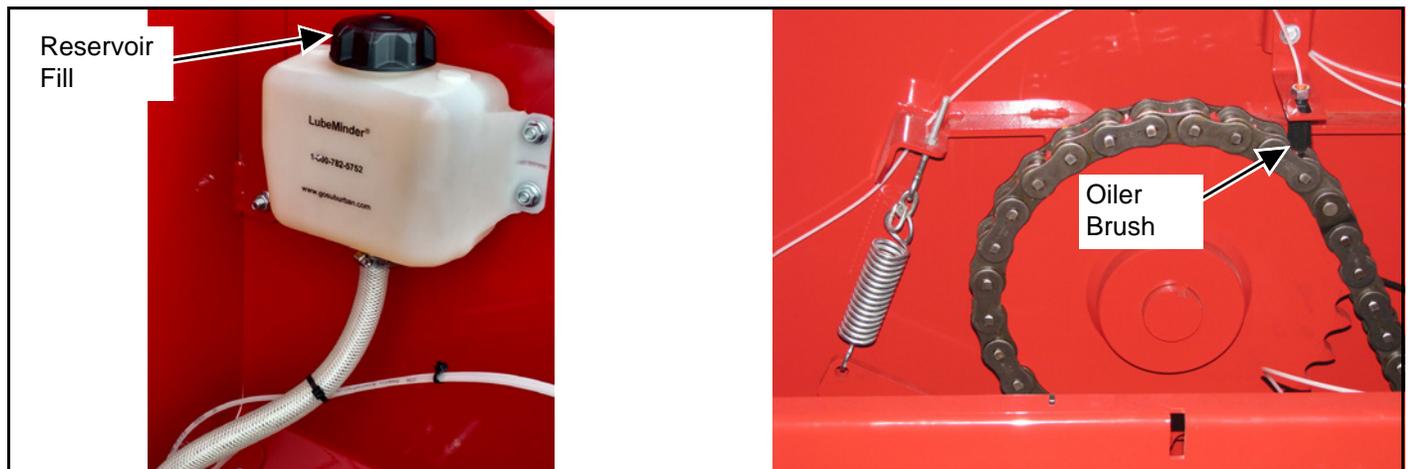


Figure 8.4 Reservoir and Oil Brush

### 8.3 ADJUSTMENTS



## CAUTION

Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

#### 8.3.1 Front Drive Roller Chains

There are five roller chain drives located at the front of the spreader. Regularly check that all tensioning springs are in serviceable condition for automatic roller chain tightening. Manually adjust spring tensioners (as needed) by turning locknut's on all tensioning bolt/idler assemblies. The third reduction tensioner spring should be compressed to 3-1/2". The proper roller chain tension for both final drive tensioner springs is when the gap between spring coils measures 1/8" to 3/16". Regularly re-check all roller chain tensions. Keep all roller chains tight at all times!

#### 8.3.2 Balance of Spinners

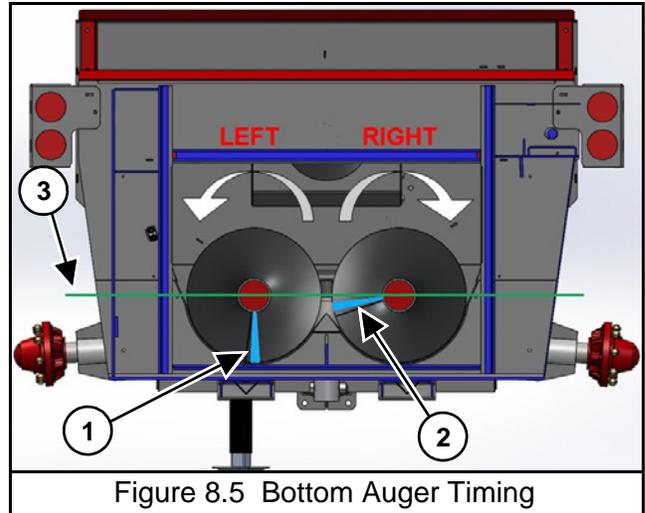
Review the rear spinners to make sure all paddles are in place and securely fastened. The loss of a paddle or tooth can cause the spinner to be unbalanced, causing damage such as premature bearing failure and cracking to occur to the frame of the spreader. If the spinners are out of balance do not operate until corrective action has been taken.

### 8.3.3 Truck Mount Die Spring

The truck mount is attached using two hard mounts and four spring tensioned mounts. The springs should be kept at a 4" compression length.

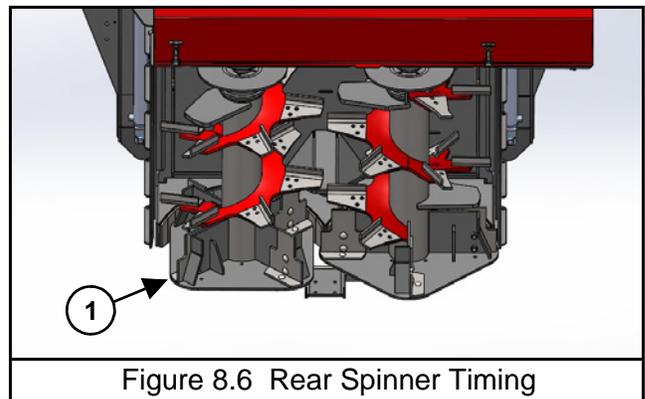
### 8.3.4 Bottom Auger Timing

Left hand auger lead edge (Item 1) pointing down, right hand auger lead edge (Item 2) pointing just below the center line (Item 3) of the spreader.



### 8.3.5 Rear Spinner Timing

The spreader rear spinners will need to be timed if the spinner gearboxes are disconnected. Time the rear spinners so that the bottom paddles (Item 1) are set so they are located halfway between the opposite spinners bottom paddles.



### 8.3.6 Brake Adjustment

Take up the slack when the stroke reaches about two thirds of the maximum travel. Adjust the slack adjuster until the brake shoes make contact with the drum. It may be necessary to jack the tire off of the ground and rotate the tire to feel contact with the drum. Once contact is felt, back off the adjuster bolt on the slack adjuster 1/2 turn or until wheel turns freely without drag. Repeat the same process for the remainder of the brakes. Refer to ADR-A manual.

### 8.3.7 Wheel Bearing Preload

1. Torque the spindle nut while rotating the hub to seat the bearings using the Seat Bearings torque value for your specific hub listed in 8.4.3 Hub Torque.
2. Loosen spindle nut.
3. Re-torque the spindle nut to the Final Torque listed in 8.4.3 Hub Torque.
4. Install cotter pin. If the nut isn't aligned with the cotter pin hole, back the nut off to closest position that does. **Do Not** back the nut off more than 30° from Final Torque position.

### 8.3.8 PTO Cutout Clutch Connection

The cutout clutch end of the PTO driveline must always be attached to the implement. The PTO driveline is equipped with a 1-3/4 x 20 spline on the implement half for attaching to the spreader. Remove the M17-hexagon bolt from the splined hub and slide the PTO onto the implement splined input shaft. Install the hexagon bolt through the hub being sure the bolt is falling into the groove on the splined shaft. Torque tight using a metric size M17 6-point socket and torque down to 75 ft. lbs. An M17 6-POINT METRIC SOCKET MUST BE USED AS ROUNDING OF HEXAGON BOLT AND INACCURACY OF TORQUE SETTINGS COULD OCCUR.

If removal of the M-17 hexagon bolt is necessary, use the same M-17 6-point socket and loosen bolt 1/2 turn. Insert a 1/4" drift punch in the hole on the opposite side of the hexagon bolt and tap to loosen the seated portion of the bolt from the splined hub. Loosen in 1/4 turn increments and tapping to loosen. After bolt seat has been released, remove the bolt. If bolt is not unseated, damage to the hexagon bolt will occur.

Attach the shield safety chain to a suitable area on the spreader, preferably to the implement PTO steel shield.

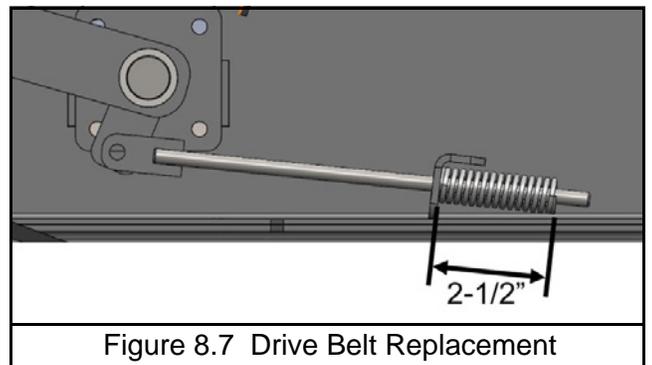
### 8.3.9 Front Spinner Drive Belt



**Maintain belt drive tension. An improperly set belt tensioner spring can cause belt slippage and decreased belt life.**

#### 8.3.9.1 Drive Belt Tensioner

Regularly check that the tensioning spring is in serviceable condition for automatic belt tightening. Manually adjust spring tensioner (as needed) by turning locknut on tensioning assembly. Proper belt tension is when the spring inside of washer to inside of washer measurement is 2-1/2". Regularly re-check belt tension. Keep belts tight at all times!



### 8.3.9.2 Drive Belt Replacement

# IMPORTANT

Maintain belt drive tension. An improperly set belt tensioner spring can cause belt slippage and decreased belt life.

1. Release the spring pressure (Item 1) on the tightener arm (Item 2).
2. Remove old belts (Item 3) and side shaft pulley (Item 4) at the same time by using steps below:
  - a. Loosen and remove all side shaft pulley mounting cap screws.
  - b. Insert cap screws in all threaded jack-screw holds (Item 5).

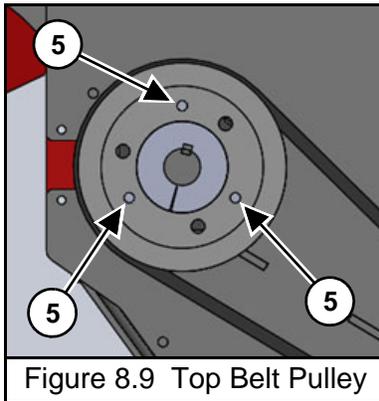


Figure 8.9 Top Belt Pulley

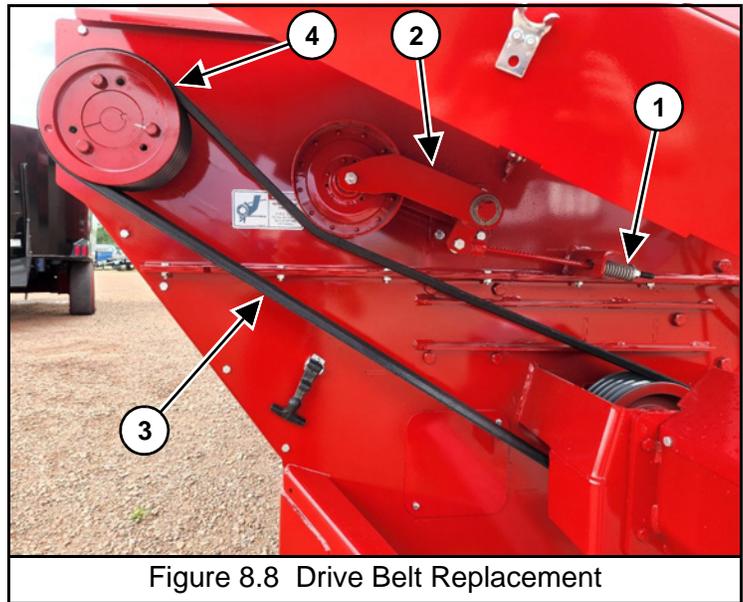


Figure 8.8 Drive Belt Replacement

- c. Start with the screws furthest from the bushing saw slot and tighten all jack screws alternately and progressively. Keep turning the screws in small equal amounts until the tapered surfaces disengage.
  - d. Remove pulley.
3. Remove front angle bracket (Item 6). Remove belt from lower pulley.
  4. Install new belt onto lower pulley and reinstall the front angle bracket.
  5. Install new belt and side shaft pulley at the same time by using steps below:
    - a. Make sure the tapered-cone surface of the bushing and the mating bore of the sheave are free of all foreign substances such as: dirt, excess paint accumulations, metal chips, lubricants, etc.

**NOTE: Do not use lubricants in this installation.**

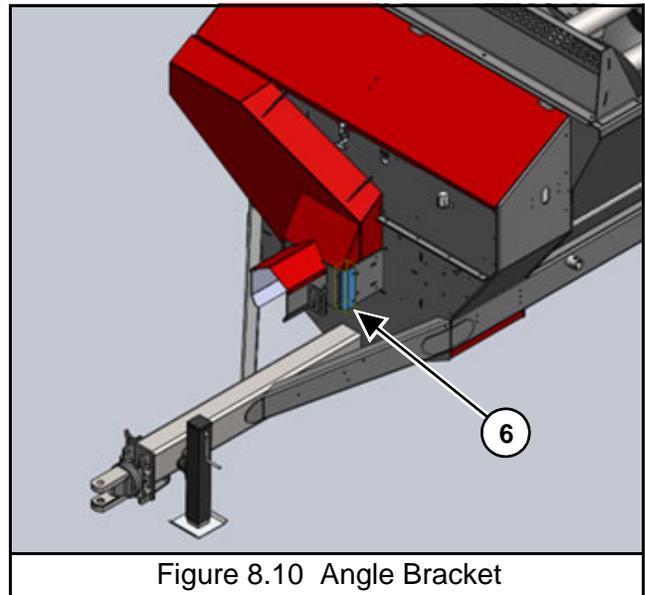


Figure 8.10 Angle Bracket

- b. Line up the unthreaded holes (Item 7) with the threaded holes (Item 8) and insert cap screws with lock washers engaging only two or three threads.
- c. With key in shaft keyway, slide the loosely assembled unit onto shaft and position for good belt alignment. Use no lubricants or anti-seize compound on threads or tapered surfaces.
- d. Carefully tighten the cap screws alternately and progressively until the tapers are seated to approximately 20ft-lbs.
- e. Continuous careful alternate and progressive tightening of the cap screws to 40ft-lbs. **Maximum torque should be achieved on each individual bolt only two times in the consecutive tightening.**

**NOTE: When properly mounted there will be a gap between the bushing flange and sheave after the screws are tightened.**

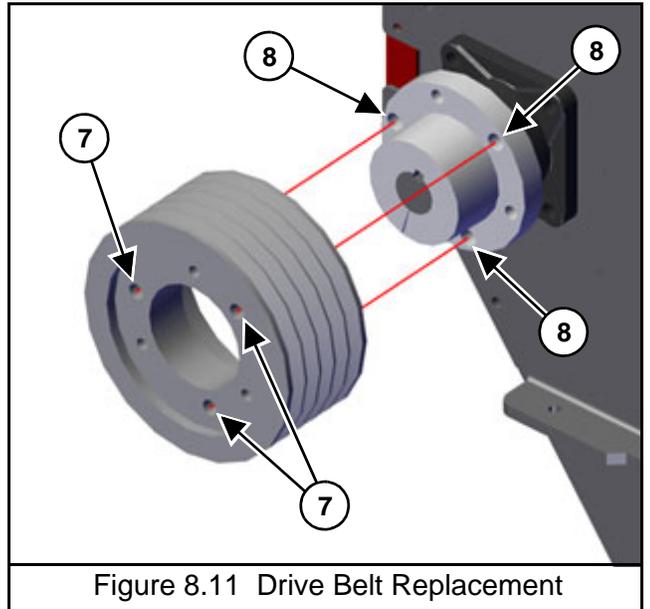


Figure 8.11 Drive Belt Replacement

6. Adjust input shaft pulley in or out as needed.
7. See 8.3.9.1 Drive Belt Tensioner to properly set spring tension.
8. If belt is not running square on the idler:
  - a. Shim the 4-bolt bracket (Item 9).
  - b. Unbolt and index the 4-bolt bracket (Item 9).
  - c. Use a pipe to adjust shaft (Item 10).

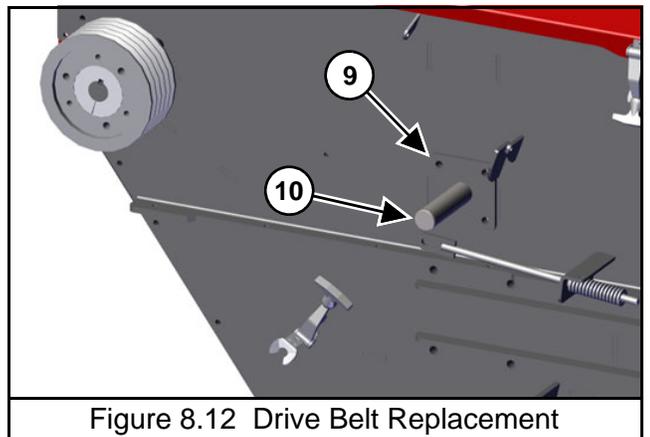


Figure 8.12 Drive Belt Replacement

## 8.4 FASTENER TORQUE SPECIFICATIONS



**Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.**

After an initial break in period approximately four months and periodically thereafter, ALL bolts and nuts should be checked to ensure that recommended torque values are being maintained.

### 8.4.1 General Torque Specifications

**IMPORTANT**

**DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only and include a + or - 10% variance. Check tightness of fasteners periodically. DO NOT use air powered wrenches.**

Head Marking	Grade and Material	Nominal Size Range (inches)
 No Markings	<b>Grade 2</b> Low or medium carbon steel	1/4" thru 3/4" Over 3/4" thru 1-1/2"
 3 Radial Lines	<b>Grade 5</b> Medium carbon steel, quenched and tempered	1/4" thru 1" Over 1" thru 1-1/2"
 6 Radial Lines	<b>Grade 8</b> Medium carbon alloy steel, quenched and tempered	1/4" thru 1-1/2"
 A325	<b>Grade A325</b> Carbon or Alloy Steel with or without Boron	1/2" thru 1-1/2"
Stainless markings vary. Most stainless is non-magnetic	<b>18-8 Stainless</b> Steel alloy with 17-19% Chromium and 8-13% Nickel	All Sizes thru 1"

Figure 8.14 SAE Bolt Grade

Head Marking	Class and Material	Nominal Size Range (mm)
 8.8	<b>Class 8.8</b> Medium carbon steel, quenched and tempered	All Sizes below 16mm 16mm - 72mm
 10.9	<b>Class 10.9</b> Alloy steel, quenched and tempered	5mm - 100mm
 12.9	<b>Class 12.9</b> Alloy steel, quenched and tempered	1.6mm - 100mm
Stainless markings vary. Most stainless is non-magnetic. Usually stamped A-2.	<b>A-2 Stainless</b> Steel alloy with 17- 19% chromium and 8-13% nickel	All Sizes thru 20mm

Figure 8.13 Metric Bolt Grade

<b>SAE</b>				
	<b>Grade 5, 5.1 &amp; 5.2</b>		<b>Grade 8 &amp; 8.2</b>	
<b>Size (inches)</b>	<b>Lubricated (lb-ft)</b>	<b>Dry (lb-ft)</b>	<b>Lubricated (lb-ft)</b>	<b>Dry (lb-ft)</b>
<b>1/4</b>	7	9	10	12.5
<b>5/16</b>	15	18	21	26
<b>3/8</b>	26	33	36	46
<b>7/16</b>	41	52	58	75
<b>1/2</b>	63	80	90	115
<b>9/16</b>	90	115	130	160
<b>5/8</b>	125	160	160	225
<b>3/4</b>	225	280	310	400
<b>7/8</b>	360	450	500	650
<b>1</b>	540	675	750	975
<b>1-1/8</b>	675	850	1075	1350
<b>1-1/4</b>	950	1200	1500	1950
<b>1-3/8</b>	1250	1550	2000	2550
<b>1-1/2</b>	1650	2100	2650	3350

<b>METRIC</b>								
	<b>Class 4.8</b>		<b>Class 8.8 &amp; 9.8</b>		<b>Class 10.9</b>		<b>Class 12.9</b>	
<b>Size (mm)</b>	<b>Lubricated (lb-ft)</b>	<b>Dry (lb-ft)</b>	<b>Lubricated (lb-ft)</b>	<b>Dry (lb-ft)</b>	<b>Lubricated (lb-ft)</b>	<b>Dry (lb-ft)</b>	<b>Lubricated (lb-ft)</b>	<b>Dry (lb-ft)</b>
<b>M6</b>	3.5	4.5	6.5	8.5	9.5	12	11.5	14.5
<b>M8</b>	8.5	11	16	20	24	30	28	35
<b>M10</b>	17	21	32	40	47	60	55	70
<b>M12</b>	29	37	55	70	80	105	95	120
<b>M14</b>	47	60	88	110	130	165	150	109
<b>M16</b>	73	92	140	175	200	225	240	300
<b>M18</b>	100	125	195	250	275	350	325	410
<b>M20</b>	140	180	275	350	400	500	460	580
<b>M22</b>	190	250	375	475	540	675	625	800
<b>M24</b>	250	310	475	600	675	850	800	1000
<b>M27</b>	360	450	700	875	1000	1250	1150	1500
<b>M30</b>	490	625	950	1200	1350	1700	1600	2000
<b>M33</b>	675	850	1300	1650	1850	2350	2150	2750
<b>M36</b>	850	1075	1650	2100	2350	3000	2750	3500

## 8.4.2 Wheel Torque

<b>BOLT/STUD SIZE</b>	<b>SOCKET SIZE</b>	<b>PRESS FORMED WHEEL CENTER</b>	<b>BOLT TYPE</b>	<b>HEAVY DUTY WHEEL CENTER</b>
3/4"	1-1/8" / 1-1/2"	N/A	Flange Nut	378 lb-ft

## 8.4.3 Hub Torque

<b>MEYER PART #</b>	<b>MODELS</b>	<b>SEAT BEARINGS</b>	<b>FINAL TORQUE</b>
75-0214	1050	200 lb-ft	50 lb-ft

## 8.5 BRAKES



Any corrosive materials (saltwater, fertilizers) are destructive to metals. To properly maintain the life of the brake system flushing with a high pressure water hose is recommended. After washing be sure to grease actuator bearings (slides) and oil all moving parts. At the end of season it is recommended that the brake drums be removed and cleaned inside. Flush wheel bearings being careful not to contaminate the brake system with lube. Readjust the brakes.

### **IMPORTANT**

Before using any equipment equipped with brakes the operation of the brakes should be checked. Brake linings should be replaced before the rivets or support plates come in contact with the wheel drum. Perform all necessary maintenance before using equipment.

Check and test the brakes before intensive use and every three months thereafter. Check the brake wear and the clearance between the brake linings and the drum visually. It is probable that the linings are worn when the brake travel has increased significantly. If the linings are worn to the minimum thickness, replace with new.

Check that the brakes are clean and clean them if necessary. Follow the brake adjustment procedure if necessary (See 8.3.6 Brake Adjustment). Lubricate the brake camshaft bearings with grease zerks. To prevent grease from getting on the brake drum or linings, do not over grease (Refer to ADR-A manual).

## 8.6 WHEELS AND TIRES

### 8.6.1 Wheel Installation



**These instructions are not complete. Read and follow all procedures in user's guide to wheels and rims by "The Maintenance Council" #T0410. If you have questions call Walther Eng. & Mfg. company inc. (937) 743-8125.**

- Clean adjoining surfaces.
- Start nuts to bring wheel and brake drum (If Equipped) flush to hub mounting surface.
- Avoid brake drum (If Equipped) and/or wheel binding on hub.
- Install remaining wheel nuts. Torque to 50 ft-lbs, then re-torque to required full torque (See 8.4.2 Wheel Torque).
- Re-torque wheel nuts after 50-100 miles.
- Check wheel nut torque every 10,000 miles and re-torque as necessary.

### 8.6.2 Tire Inflation

TIRE SIZE	PSI

If tires are to operate for any length of time on roads or other hard surfaces and the draft load is not great, it is advisable to increase the pressure in the tire to the maximum recommendation in order to reduce the movement of the tread bars that causes excessive wiping action.

Inflation pressures should be checked at least every week. Recommended inflation pressures based on total load on tires should be used. For accurate inflation use a special low-pressure gauge with one-pound gradations. Gauges should be checked occasionally for accuracy. Always use sealing valve caps to prevent loss of air.

### 8.6.3 Implement Tires

Agricultural tires are designed to carry a specified load at a specified inflation pressure when mounted on a specified width rim. When these conditions are met, the deflection of the tire carcass is in the optimum range and maximum tire performance can be expected. If this combination of design factors is altered for any reason, tire performance will be reduced.

#### *Tire Overload or Under Inflation*

Tire overload or under inflation have the same effect of over-deflecting the tire. Under such conditions the tread on the tire will wear rapidly and unevenly, particularly in the shoulder area. Radial cracking in the upper sidewall area will be a problem. With under inflated drive tires in high torque applications sidewall buckles will develop leading to carcass breaks in the sidewall. While an under inflated drive tire may pull better in some soil conditions, this is not generally true and not worth the high risk of tire damage that such an operation invites.

#### *Over Inflation*

Over inflation results in an under-deflected tire carcass. The tread is more rounded, concentrates tread wear at the centerline area. Traction is reduced in high torque service because ground contact of the tread shoulder area is reduced and the harder carcass, with reduced flexing characteristics, does not work as efficiently. The tightly stretched overinflated carcass is more subject to weather checking and impact break damage.

#### *Pressure Adjustments Required - Slow Speed Operation*

Higher tire loads are approved for intermittent service operations at reduced speed. Under such conditions inflation pressure must be increased to reduce tire deflection and assure full tire service life. See 8.6.2 Tire Inflation for proper inflation.

#### *Use of Proper Width Rims*

If tires are mounted on rims of incorrect width, the following conditions can result:

- Use of a wider rim results in flattening of the tread face. This feature may improve traction in loose soil conditions. In hard soils, however, the flatter tread penetrates less effectively and tractive effort is reduced. Additional stresses concentrated in the shoulder area tend to increase the rate of shoulder tread wear. By spacing the tire beads farther apart the sidewalls are forced to flex in an area lower than normal and this can result in circumferential carcass breaks and/or separation.
- Use of a narrower rim brings potential mounting problems because the rim shield or flange cover molded into most drive tire designs tends to interfere with the seating of the tire beads on a narrow rim. Once mounted on a narrow rim, the tire shield applies undue pressure on the rim flange, with possible tire sidewall separation or premature rim failure at the heel radius. On a narrow rim the tread of the tire is rounded. As with the over-inflated tire tread wear will be concentrated in the center area of the tread and traction in the field will be reduced.

#### *Roading Of Farm Implement Tires*

- Tractor tires operate most of the time in field conditions where the lugs can penetrate the soil, and where all portions of the tread make contact with the ground. In operating on hard roads with low inflation pressure there is an undesirable distortion of the tire during which the tread bars squirm excessively while going under and coming out from under the load. On highly abrasive or hard surfaces, this action wipes off the rubber of the tread bars or lugs and wears them down prematurely and irregularly.
- Farm tractor and implement tires are designed for low-speed operations not exceeding 25 miles per hour. If tractors or implements are towed at high speeds on the highway high temperatures may develop under the tread bars and weaken the rubber material and cord fabric. There may be no visible evidence of damage at the time. Later a premature failure occurs which experience shows was started by the overheated condition that developed when the unit was towed at a high speed.

## Care And Storage Of Tractor And Implement Tires

- All tires should be stored indoors in a cool, dark, dry area free from drafts. Both heat and light are sources of oxidation on the tire surfaces - a result of which is crazing and weather checking. Tires should never be stored on oily floors or otherwise in contact with solvents, oil or grease. Further, tires should not be stored in the same area with volatile solvents. Such solvents are readily absorbed by rubber and will damage and weaken it.
- Tires should be stored away from electric motors, generators, arc welders, etc. since these are active sources of ozone. Ozone attacks rubber - to cause crazing and weather checking.
- Unmounted tires should be stored vertically on tread. If stored for an extended period, tires should be rotated periodically to reduce stress concentrations in the area of ground contact. Tires should not be stored flat and "stove piped" as they will become squashed and distorted, making mounting on the rim difficult - particularly for tubeless tires.
- Inflated tires mounted on rims should be stored under conditions noted above, with inflation pressure reduced to 10 PSI.

## 8.7 STORING THE IMPLEMENT

LOCKOUT / TAGOUT the machine / spreader. (See 5.3 SHUTOFF & LOCKOUT POWER)

### Extended Storage

Sometimes it may be necessary to store your Meyer spreader for an extended period of time. Below is a list of items to perform before storage.

- Fully empty the material from the spreader. (See 7.3 UNLOADING)
- Thoroughly clean the implement inside and outside.
- Remove all material build-up.
- Lubricate the equipment. (See 8.2 LUBRICATION)
- Apply oil to the rear gate and inspect all spreader components for wear or damage. Repair and replace components as necessary.
- Make appropriate adjustments to equipment. (See 8.3 ADJUSTMENTS)
- Place hydraulic hoses and 7-pin connector in the storage brackets (if equipped).
- Inspect the hitch and all welds on the equipment for wear and damage.
- Check for loose hardware, missing guards, or damaged parts.
- Check for damaged or missing safety signs (decals). Replace if necessary.
- Touch up all paint nicks and scratches to prevent rusting.
- Place the equipment in a dry protected shelter.
- Place the equipment flat on the ground.

## 8.8 RETURN THE IMPLEMENT TO SERVICE

After the Meyer spreader has been in storage, it is necessary to follow a list of items to return the equipment to service.

- Be sure all shields and guards are in place.
- Lubricate the equipment.
- Check tire pressure and that the lug nuts are tight.
- Connect to a tractor and operate equipment; verify all functions operate correctly.
- Check for leaks. Repair as needed.

## 9.0 REPAIR PARTS

### **WARNING**

Before servicing this equipment, ensure that all personnel, including family members are familiar with the equipment and the safety hazards that are present, along with the safety practices that should be observed while working in this equipment.

### **CAUTION**

Inspect the axles, o-beams, spindles, tires, hitches and all safety shielding, safety signs and safety lighting regularly. These parts if not watched closely, could pose potential injury or death. If any part is found in need of repair, follow the SHUTOFF & LOCKOUT POWER recommendations and have qualified personnel repair immediately.

### **CAUTION**

Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

### **IMPORTANT**

It is important that everyone who works on this equipment is properly trained to help ensure that they are familiar with this procedure and that they follow the steps outlined above. This manual will remind you when to SHUTOFF & LOCKOUT POWER.

At times, parts on this implement will become worn or damaged. Performing repairs on this implement can pose a risk of injury including death. To reduce risk, the party that will be doing the repair should be very knowledgeable of the implement and the equipment that they will be using to do the repair.

- Review the repair so that a plan can be put together and the proper equipment can be used to repair this implement safely and correctly.
- Personal safety equipment may include items such as safety glasses, protective footwear, hearing protection, gloves, fire retardant clothes, etc.

### **WARNING**

**Crushing Hazard:**  
**Do Not work under suspended or blocked parts**



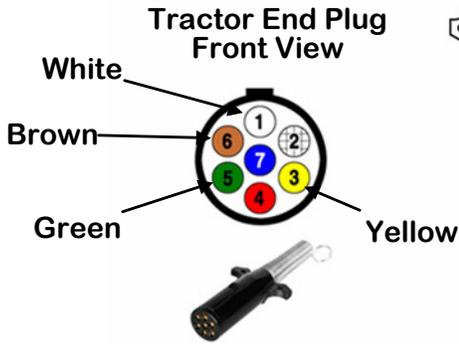
- The use of hoists and/or supports may be needed to handle heavy components.
- If the implement is being repaired in the field, make sure the parking brake of the tractor is engaged, the implement is on solid and level ground.
- Welding and torching should be done by properly trained individuals who have proven their skills.

### **IMPORTANT**

Call the factory for any additional details you may need to perform the repair. Some parts may come with instruction sheets to assist in the repair. Instruction sheets may be provided with the parts order. Otherwise, if available, instruction sheets can be e-mailed or faxed for your convenience. Call Meyer Manufacturing Corporation toll free at 1-800-325-9103 or email [parts@meyermfg.com](mailto:parts@meyermfg.com).

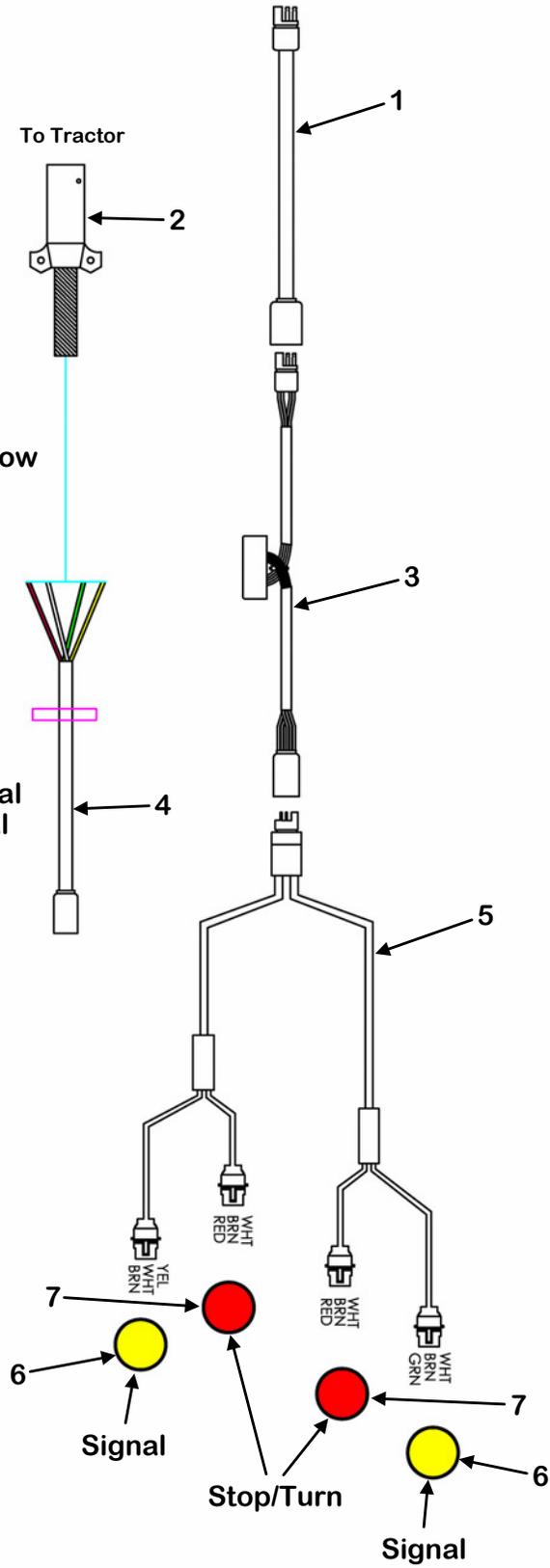
**NOTE:** Be environmentally friendly and dispose of any waste materials properly. Recycle when appropriate.

# LIGHTS



**Cable Color Code**

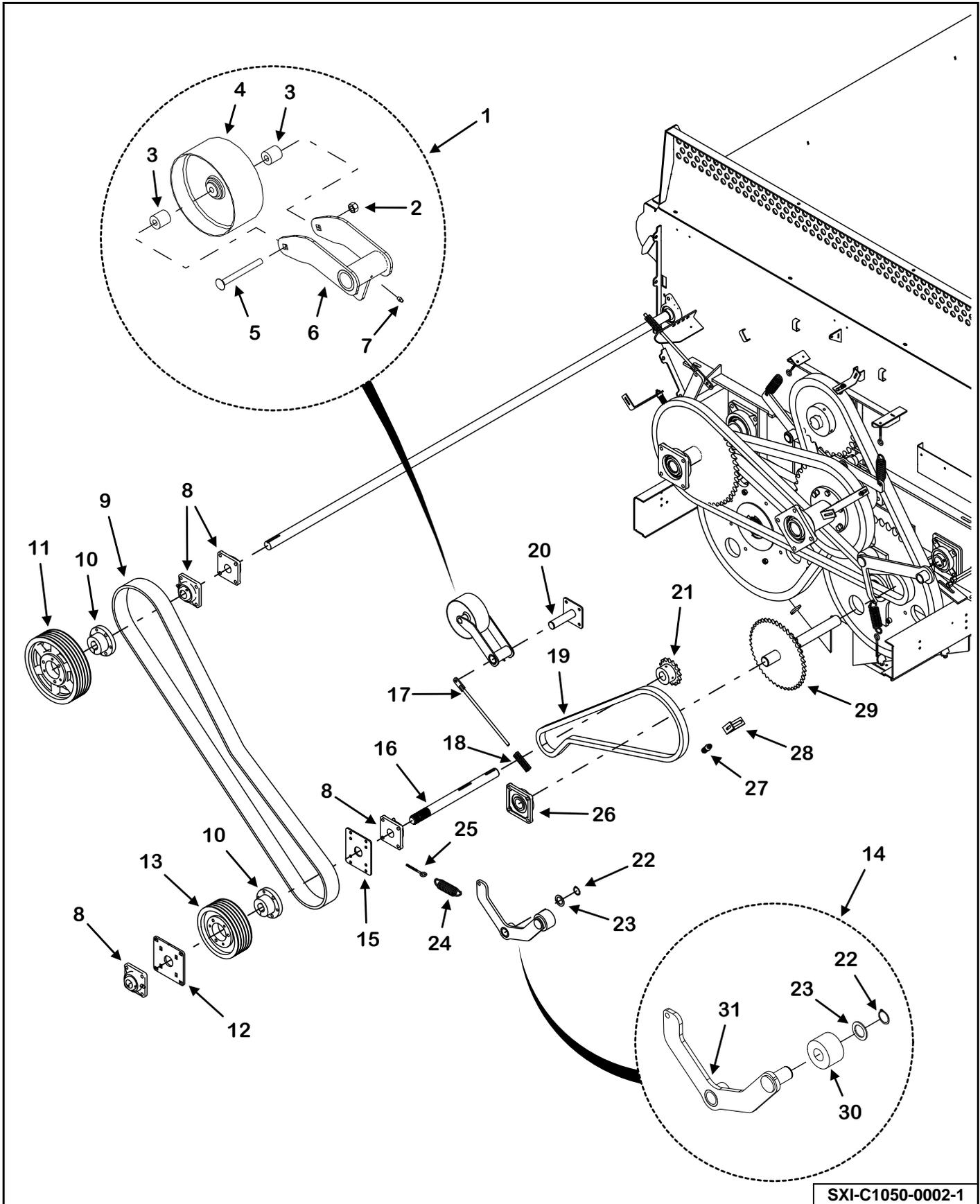
- 6) Brown Wire - Tail Lights
- 5) Green Wire - Right Side Brake/Turn Signal
- 3) Yellow Wire - Left Side Brake/Turn Signal
- 1) White Wire - Ground



SXI-C-0005-1

<b>KEY</b>	<b>PART NUMBER</b>	<b>QTY</b>	<b>DESCRIPTION</b>
1	56-0297	1	Maxi-Seal 246" Power Extension Harness
2	56-0005-4	1	7-Contact Plug End Only, w/Spring
3	56-0284	1	Maxi-Seal AG Module
4	56-0306	1	Maxi-Seal Front Harness To 7-Pin
5	56-0310	1	Maxi-Seal Rear Harness No Side Lights
6	56-0091-AMP	2	4" Amber Round LED Turn Lamp
	56-0092	2	Round Grommet
7	56-0090-AMP	2	4" Red Round LED Turn Lamp
	56-0092	2	Round Grommet

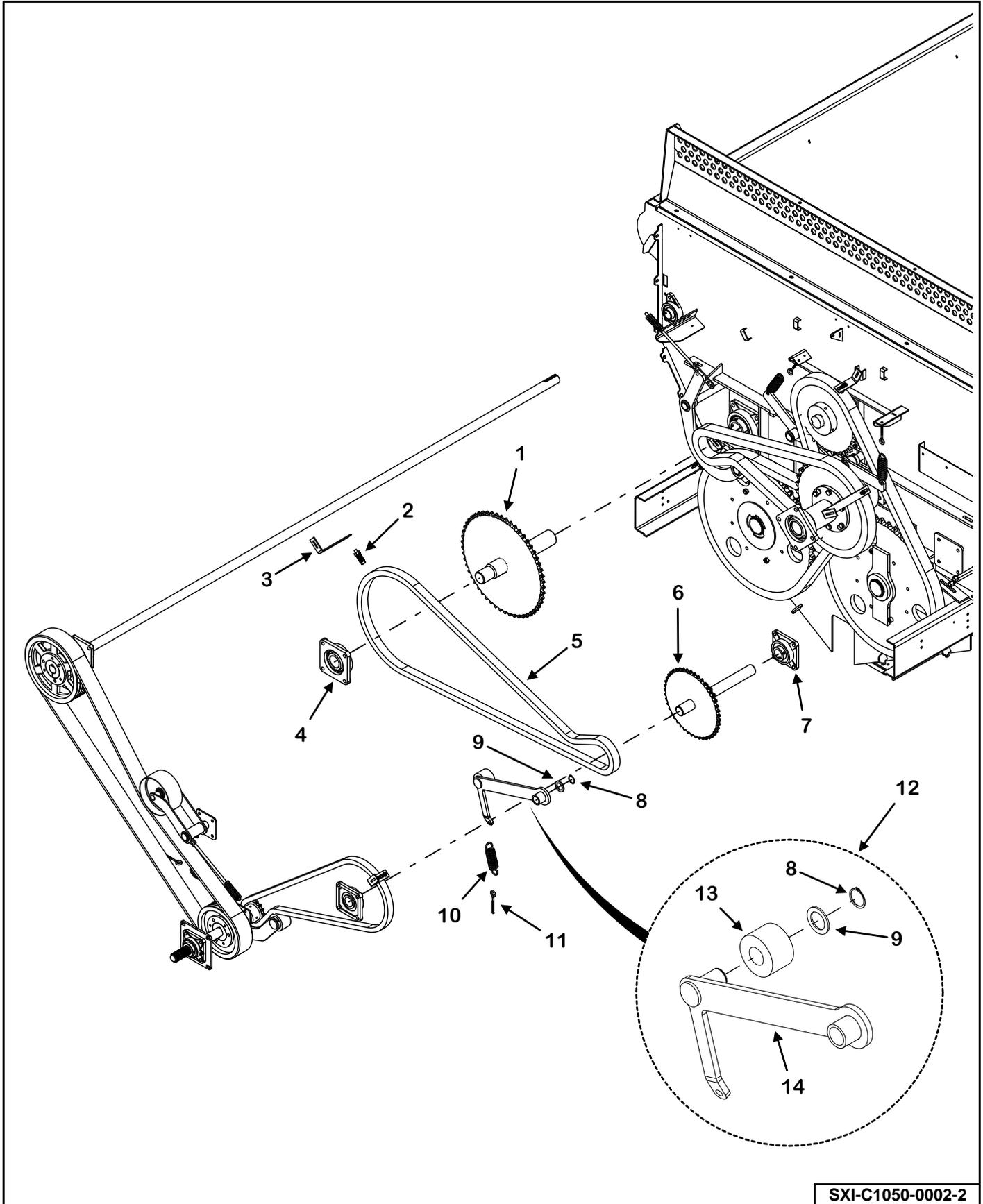
# FIRST REDUCTION AND SPINNER DRIVE



SXI-C1050-0002-1

KEY	PART NUMBER	QTY	DESCRIPTION
1	12-0072	1	Idler Pulley Assembly
2	814-5013-Z	1	1/2"-13 Center Lock Nut
3	12-0071-3	2	Pulley Spacer
4	12-0071-2	1	Idler Pulley
5	850-5013-5Z	1	1/2"-13 x 5" Carriage Bolt
6	12-0072-1	1	Belt Drive Idler Pivot Weldment
7	30-0001	1	1/4"-28 Straight Grease Fitting
8	914-3819	4	1-3/4" 4-Bolt Flange Bearing
9	49-0541	1	V-Belt
10	12-0059-2	2	1-3/4" Quick Disconnect Bushing
11	12-0059-3	1	14" 5 Groove Pulley
12	901-0702-9	1	Bearing Mount Plate
13	12-0059-1	1	10.9" 5 Groove Pulley
14	925-0638	1	Chain Tightener Assembly
15	901-0788-14	1	Bearing Mount Plate
16	923-0541	1	Input Drive Shaft
17	941-0500	1	Belt Tightener Rod Weldment
18	29-0036	1	Die Spring
19	111-0080-101-OR	1	#80-101 Pitch Roller Chain Including Connector Link & Offset
20	See Page 70	1	Idler Pivot Weldment
21	910-0536	1	80B16 1-3/4" Bore Sprocket
22	33-0038	2	1-1/2" External Snap Ring
23	925-0530-2	2	Tightener Washer
24	929-0501	1	Extension Spring
25	933-3804	1	5/16"-18 x 3-3/4" Shank Turned Eye Bolt
26	914-3832	1	2" 4-Bolt Flange Bearing
27	See Page 98	1	Brush Assembly
28	952-0001-3	1	Auger Chain Brush Holder
29	910-0534	1	Jackshaft Weldment
30	925-0611-2	1	Nylon Tightener Roller
31	925-0638-1	1	Chain Tightener Weldment

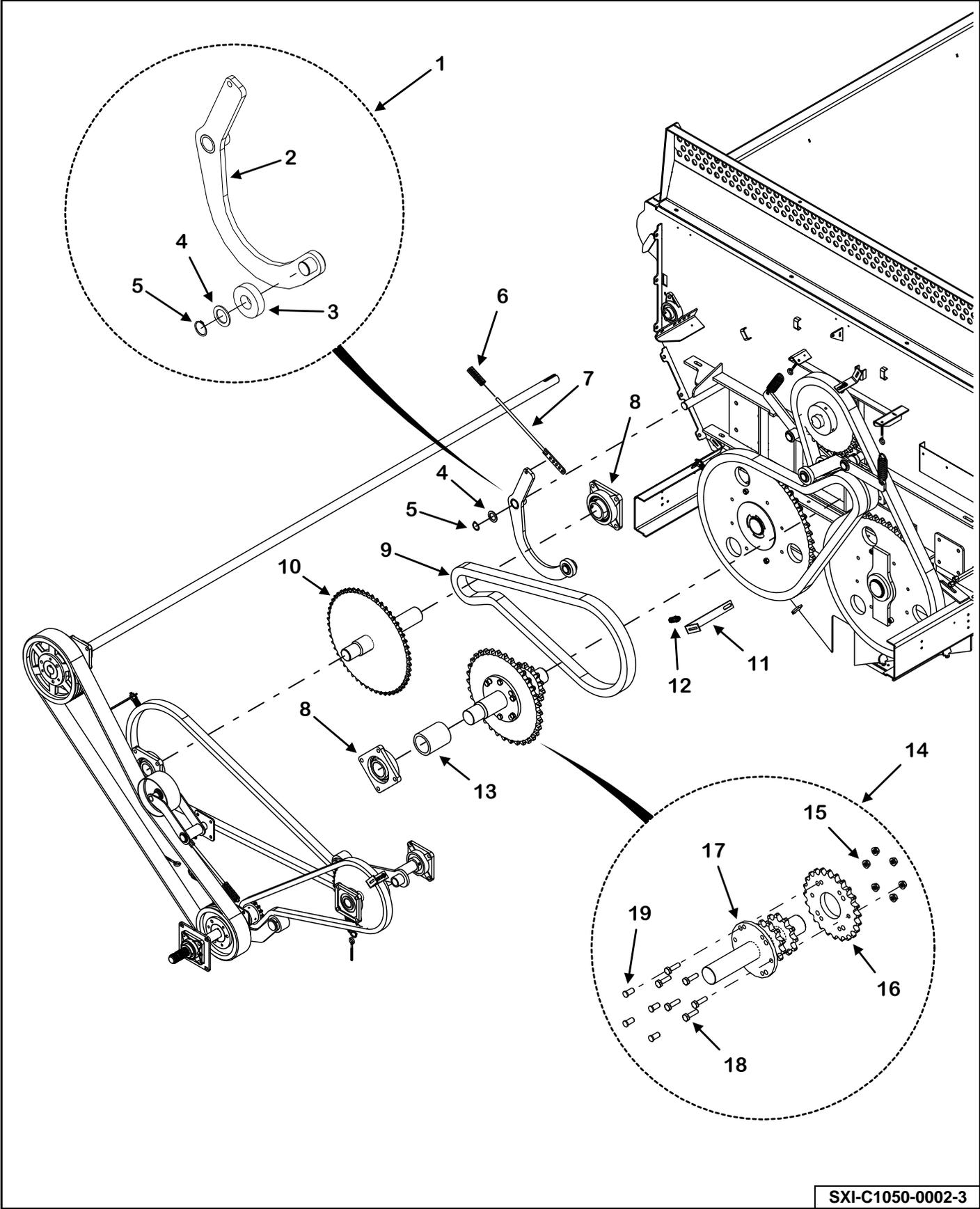
# SECOND REDUCTION DRIVE



SXI-C1050-0002-2

<b>KEY</b>	<b>PART NUMBER</b>	<b>QTY</b>	<b>DESCRIPTION</b>
1	910-0533	1	Jackshaft Weldment
2	See Page 98	1	Brush Assembly
3	33-8000-7	1	Auger Chain Brush Holder
4	914-3811	1	2-1/2" 4-Bolt Flange Bearing
5	111-0100-124	1	#100-124 Pitch Roller Chain Including Connector Link
6	See Page 60	1	Jackshaft Weldment
7	914-3832	1	2" 4-Bolt Flange Bearing
8	33-0038	2	1-1/2" External Snap Ring
9	925-0530-2	2	Tightener Washer
10	929-0501	1	Extension Spring
11	933-3804	1	5/16"-18 x 3-3/4" Shank Turned Eye Bolt
12	925-0639	1	Chain Tightener Assembly
13	925-0611-2	1	Nylon Tightener Roller
14	925-0639-1	1	Chain Tightener Weldment

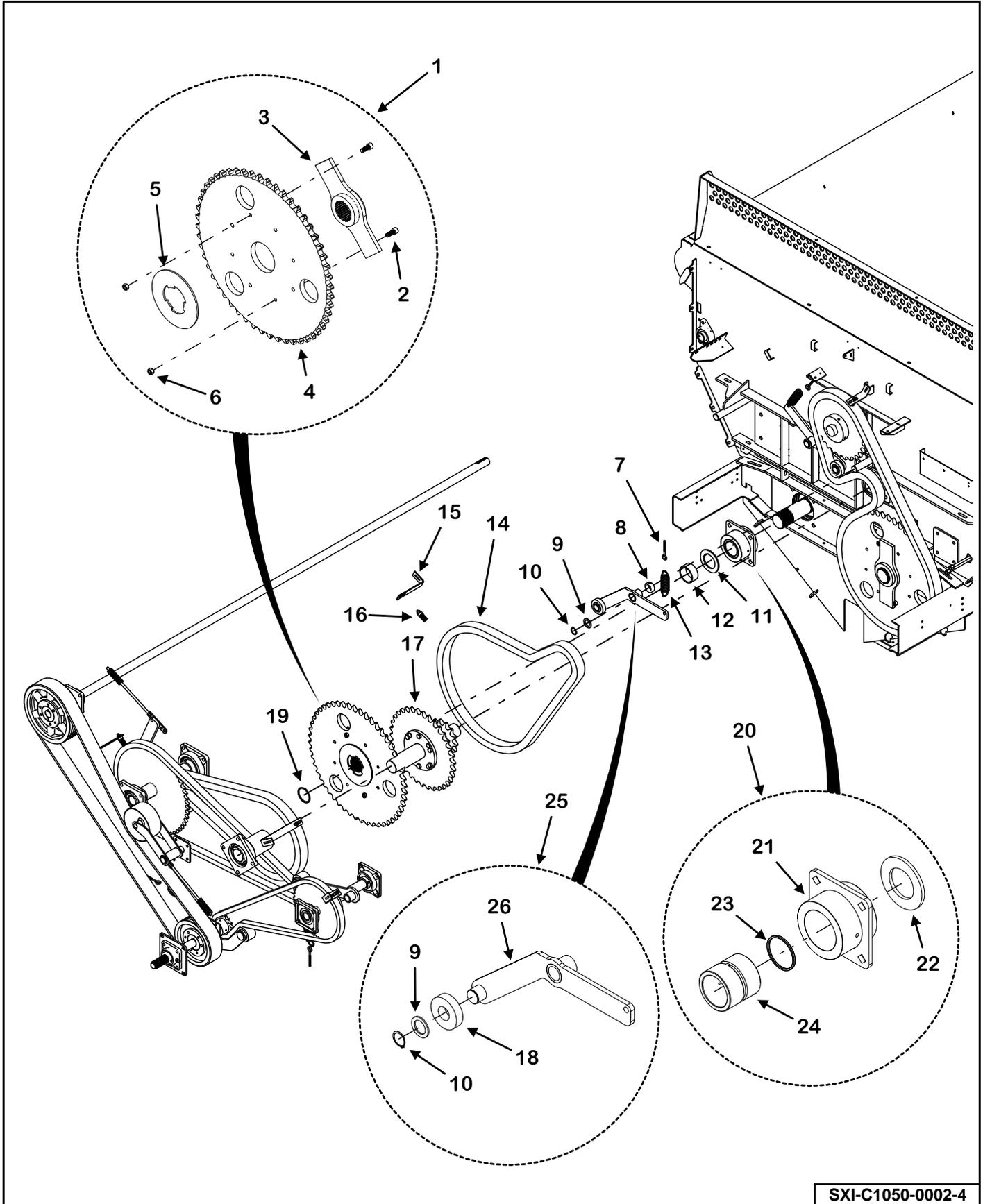
# THIRD REDUCTION DRIVE



SXI-C1050-0002-3

KEY	PART NUMBER	QTY	DESCRIPTION
1	925-0610	1	Chain Tightener Assembly
2	925-0610-1	1	Chain Tightener Weldment
3	912-0016-1	1	7/8" Nylon Roller
4	925-0530-2	2	Tightener Washer
5	33-0038	2	1-1/2" External Snap Ring
6	29-0036	1	Die Spring
7	941-0502	1	Chain Tightener Rod Weldment
8	914-0502	2	3" 4-Bolt Flange Bearing
9	111-0140-62	1	#140-62 Pitch Roller Chain Including Connector Link
10	910-0533	1	Jackshaft Weldment
11	25-0538	1	Auger Chain Brush Holder
12	See Page 98	1	Brush Assembly
13	912-0515	1	Chain Guide
14	910-0539	1	Jackshaft Sprocket Assembly
15	810-6311-Z	6	5/8"-11 Spin Lock Nut
16	910-0539-2	1	140A34 4-1/2" Bore Split Sprocket
17	910-0539-1	1	Jackshaft Weldment
18	851-6311-2.25Z	6	5/8"-11 x 2-1/4" Cap Screw
19	910-0502-5	4	Sprocket Drive Pin

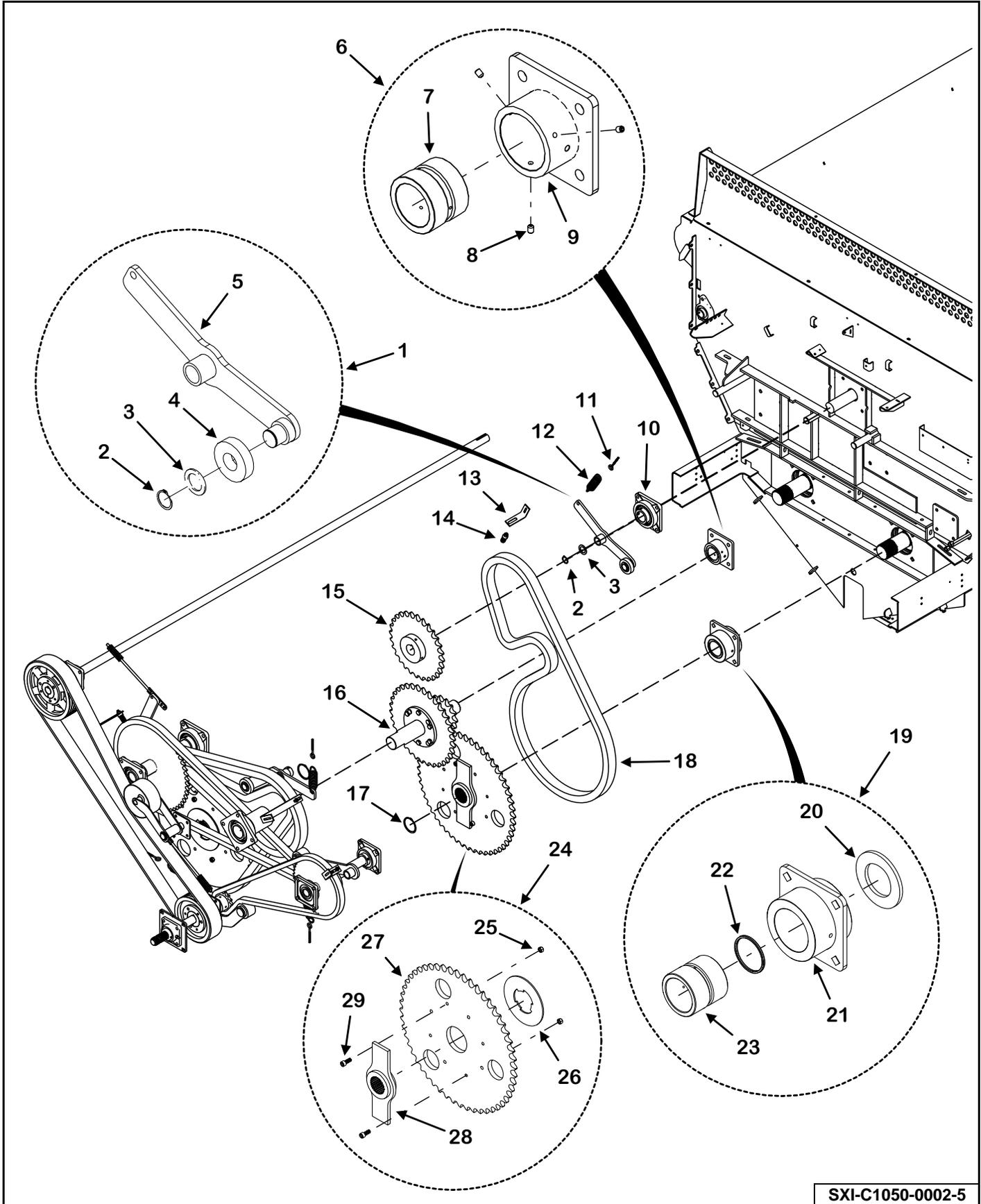
# FINAL REDUCTION, RH AUGER DRIVE



SXI-C1050-0002-4

KEY	PART NUMBER	QTY	DESCRIPTION
1	910-0538	1	Shear Sprocket Welded Assembly
2	831-5618-1.50-SL	2	9/16"-18 x 1-1/2" Socket Head Screw (Standard Protection)
	831-6318-1.50	2	5/8"-18 x 1-1/2" Socket Head Screw (Least Protection)
3	910-0538-1	1	Shear Plate & Splined Hub Welded Assembly (Welded On)
4	910-0538-2	1	Shear Sprocket
5	910-0538-3	1	Shear Washer (Welded On)
6	884-5618	2	9/16"-18 Top Lock Nut (Standard Protection)
	884-6318	2	5/8"-18 Top Lock Nut (Least Protection)
7	933-3804	1	5/16"-18 x 3-3/4" Shank Turned Eye Bolt
8	921-0005	1	1-1/2" Set Collar
9	925-0530-2	2	Tightener Washer
10	33-0038	2	1-1/2" External Snap Ring
11	933-0513	1	Front Auger Washer
12	933-0512	1	Right Auger Sprocket
13	929-0501	1	Extension Spring
14	111-0140-70	1	#140-70 Pitch Roller Chain Including Connector Link
15	33-8000-7	1	Auger Chain Brush Holder
16	See Page 98	1	Brush Assembly
17	See Page 64	1	Jackshaft Sprocket Assembly
18	912-0016-1	1	7/8" Nylon Roller
19	33-0083	1	3-1/2" Retaining Ring
20	914-0514	1	Bearing Assembly
21	914-0514-1	1	Bearing Weldment
22	914-0514-3	1	Thrust Washer
23	14-0326	1	Quad Ring
24	914-0514-2	1	Auger Sleeve Bearing
25	925-0637	1	Right Auger Tightener Arm Assembly
26	925-0637-1	1	Right Auger Tightener Arm Weldment

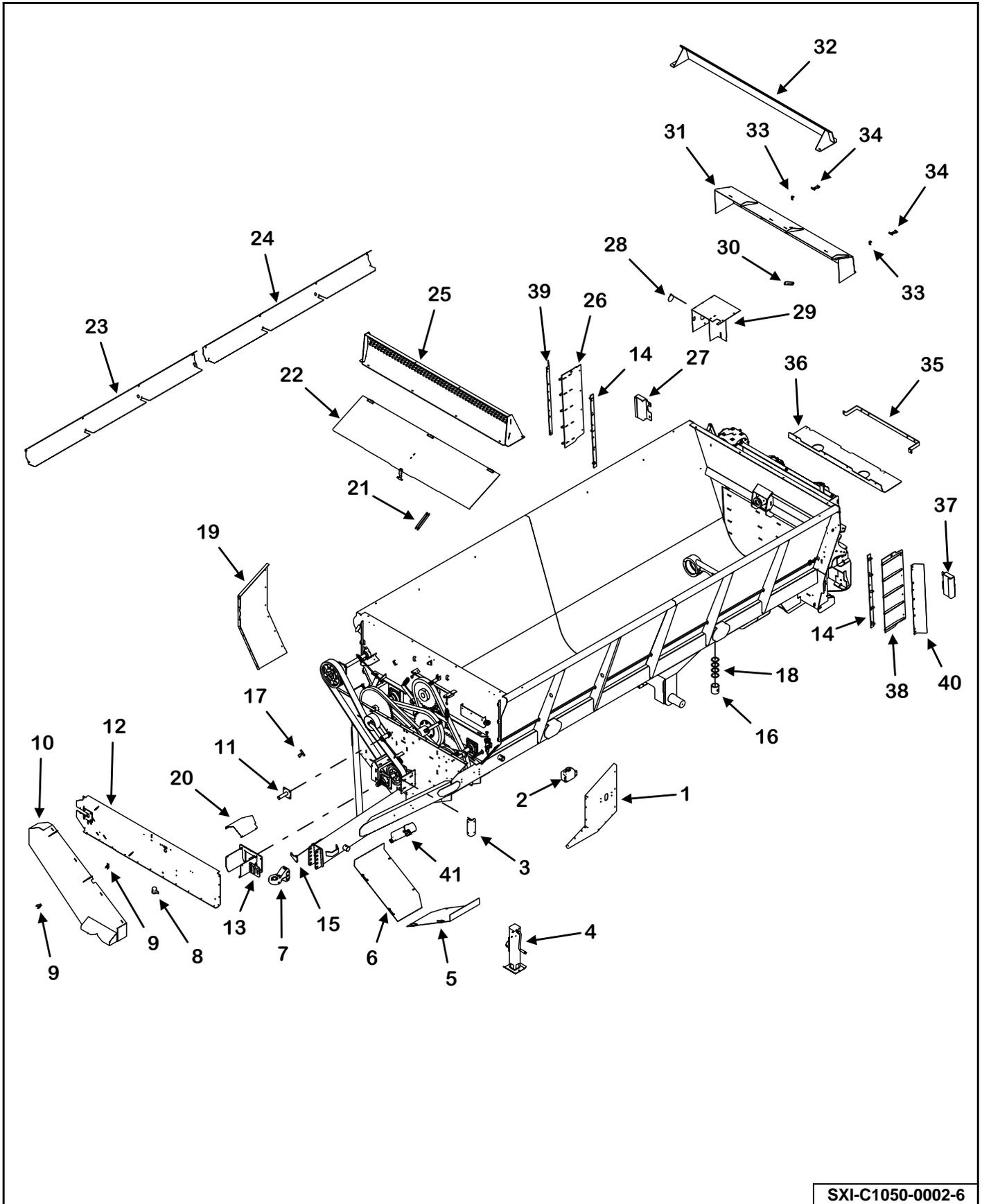
# FINAL REDUCTION, LH AUGER & THIRD AUGER DRIVE



SXI-C1050-0002-5

KEY	PART NUMBER	QTY	DESCRIPTION
1	925-0529	1	Left Auger Tightener Arm Assembly
2	33-0038	2	1-1/2" External Snap Ring
3	925-0530-2	2	Tightener Washer
4	912-0016-1	1	7/8" Nylon Roller
5	925-0529-1	1	Left Auger Tightener Arm Weldment
6	914-0503	1	Jackshaft Bearing Assembly
7	914-0503-2	1	Jackshaft Bearing
8	827-3816-.5	3	3/8"-16 x 1/2" Set Screw
9	914-0503-1	1	Jackshaft Bearing Weldment
10	914-3811	1	2-1/2" 4-Bolt Flange Bearing
11	933-3804	1	5/16"-18 x 3-3/4" Shank Turned Eye Bolt
12	929-0501	1	Extension Spring
13	952-0001-3	1	Auger Chain Brush Holder
14	See Page 98	1	Brush Assembly
15	910-0087	1	140B28 2-1/2" Bore Sprocket
16	See Page 64	1	Jackshaft Sprocket Assembly
17	33-0083	1	3-1/2" Retaining Ring
18	111-0140-94	1	#140-94 Pitch Roller Chain Including Connector Link
19	914-0514	1	Bearing Assembly
20	914-0514-3	1	Thrust Washer
21	914-0514-1	1	Bearing Weldment
22	14-0326	1	Quad Ring
23	914-0514-2	1	Auger Sleeve Bearing
24	910-0538	1	Shear Sprocket Welded Assembly
25	884-5618	2	9/16"-18 Top Lock Nut (Standard Protection)
	884-6318	2	5/8"-18 Top Lock Nut (Least Protection)
26	910-0538-3	1	Shear Washer (Welded On)
27	910-0538-2	1	Shear Sprocket
28	910-0538-1	1	Shear Plate & Splined Hub Welded Assembly (Welded On)
29	831-5618-1.50-SL	2	9/16"-18 x 1-1/2" Socket Head Screw (Standard Protection)
	831-6318-1.50	2	5/8"-18 x 1-1/2" Socket Head Screw (Least Protection)

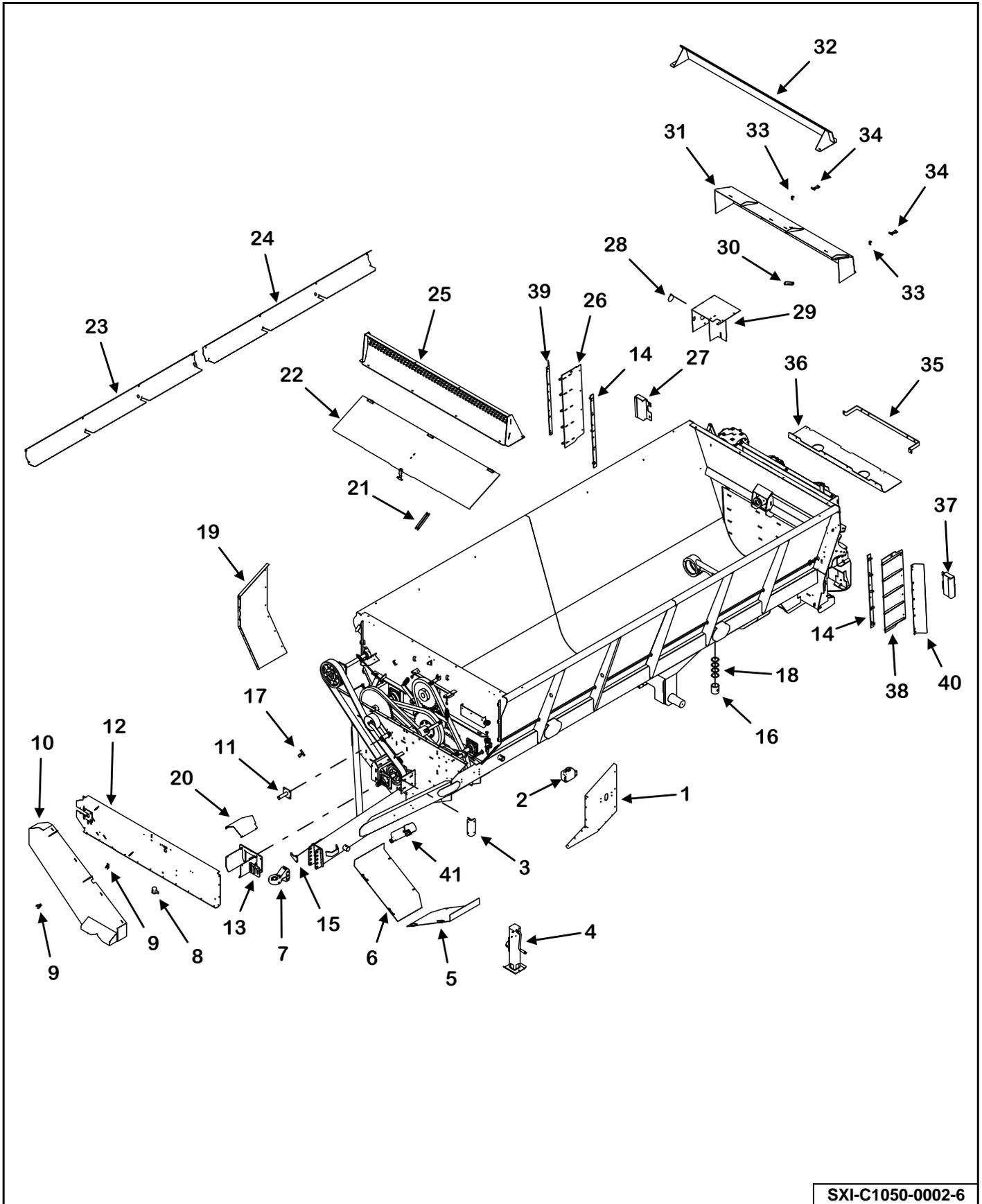
# BODY & SHIELDS



SXI-C1050-0002-6

KEY	PART NUMBER	QTY	DESCRIPTION
1	924-0639	1	Left Front Panel
2	See Page 98	1	Reservoir Two Quart Tank
3	901-0729-6	1	Input Mount Plate
4	956-3804	1	Jack
5	925-0643	1	Left Side Panel Assembly
	924-0643-1	1	Left Side Panel
	924-0515-2	2	Stainless Steel Shield Hinge
	802T-2520-.63Z	4	1/4"-20 x 5/8" Truss Head Machine Screw Zinc
	815-2520-Z	4	1/4"-20 Nylon Insert Lock Nut
6	924-0642	1	Right Side Panel Assembly
	924-0642-1	1	Right Side Panel
	924-0515-2	2	Stainless Steel Shield Hinge
	802T-2520-.63Z	4	1/4"-20 x 5/8" Truss Head Machine Screw Zinc
	815-2520-Z	4	1/4"-20 Nylon Insert Lock Nut
7	75-2028-KIT	1	Bull Pull Hitch With Hardware
8	56-0009	1	Plug Holder
9	32-0027-3	2	Rubber T Lower Catch Keeper
10	924-0656-1	1	Belt Drive Shield Weldment
11	925-0624	1	Idler Pivot Weldment
12	924-0635	1	Upper Input Panel Weldment
13	901-0663-9	1	Input Plate Weldment
14	925-0628	2	Material Guide Mount Weldment
	851-5013-1SS	10	1/2"-13 x 1" Hex Cap Screw
	814-5013-Z	10	1/2"-13 Hex Center Lock Nut
	805-0050-N	10	1/2" Flat Nylon Plastic Washer
15	901-0555-1	1	PTO Holder Plate
16	925-3771-4	1	Auger Hold Down Collar
	881-1008-5Z	1	1"-08 x 5" Hex Cap Screw
	884-1008-Z	1	1"-08 Top Lock Nut
17	32-0027-2	1	Rubber T-Latch With End Piece
18	901-0717-2	4	T-Post Spacer
19	924-0636	1	Right Front Panel
20	924-0579	1	Input Shaft Cover
21	955-3703	2	Gas Spring

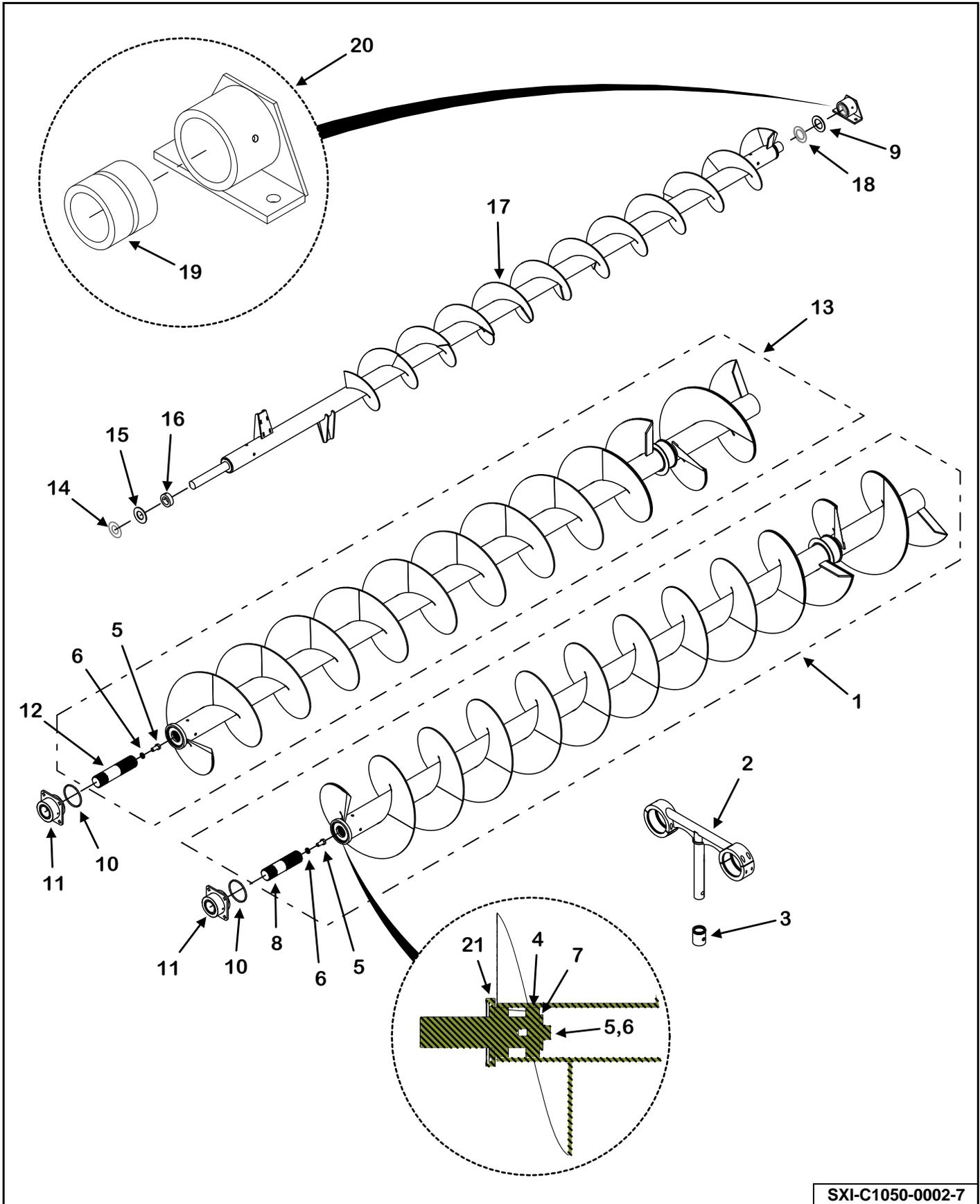
# BODY & SHIELDS (CONT'D)



SXI-C1050-0002-6

KEY	PART NUMBER	QTY	DESCRIPTION
22	924-0644	1	Front Top Shield Assembly
	924-0644-1	1	Front Top Shield Weldment
	32-0027-2	1	Rubber T-Latch With End Piece
	924-0515-2	3	Stainless Steel Shield Hinge
	802T-2520-.63SS	6	1/4"-20 x 5/8" Truss Head Machine Screw
	815-2520-Z	6	1/4"-20 Nylon Lock Nut
23	924-0637-1	1	Front Transfer Shield
24	924-0638-1	1	Rear Transfer Shield
25	901-0888	1	Splash Guard Weldment
26	925-0630	1	Right Material Guide Weldment
	823-0002	1	Lynch Pin
	851-5013-1.5Z	4	1/2"-13 x 1-1/2" Hex Cap Screw
	851-5013-1.75Z	1	1/2"-13 x 1-3/4" Hex Cap Screw
	815-5013-Z	5	1/2" Nylon Insert Lock Nut
27	925-0012-1	1	RH LED Mount Bracket
28	925-0608-1-3	1	Shield Cover
29	924-0634	1	Gearbox Shield Weldment
30	925-0581	1	Rear Lid Latch Lever
31	924-0633	1	Gearbox Shield Weldment
32	901-0889	1	Splash Guard Welded Assembly
33	32-0032-3A	2	Rubber T Lower Catch Keeper
34	32-0032-2	2	Rubber T-Latch With End Piece
35	925-0635	1	Gearbox Strap
36	925-0631	1	Spinner Top Shield
37	925-0011-1	1	LH LED Mount Bracket
38	925-0629	1	Left Material Guide Weldment
	823-0002	1	Lynch Pin
	851-5013-1.5Z	4	1/2"-13 x 1-1/2" Hex Cap Screw
	851-5013-1.75Z	1	1/2"-13 x 1-3/4" Hex Cap Screw
	815-5013-Z	5	1/2" Nylon Insert Lock Nut
39	925-0629-4	1	Right Material Deflector Plate
40	925-0629-3	1	Left Material Deflector Plate
41	33-0060	1	Manual Holder

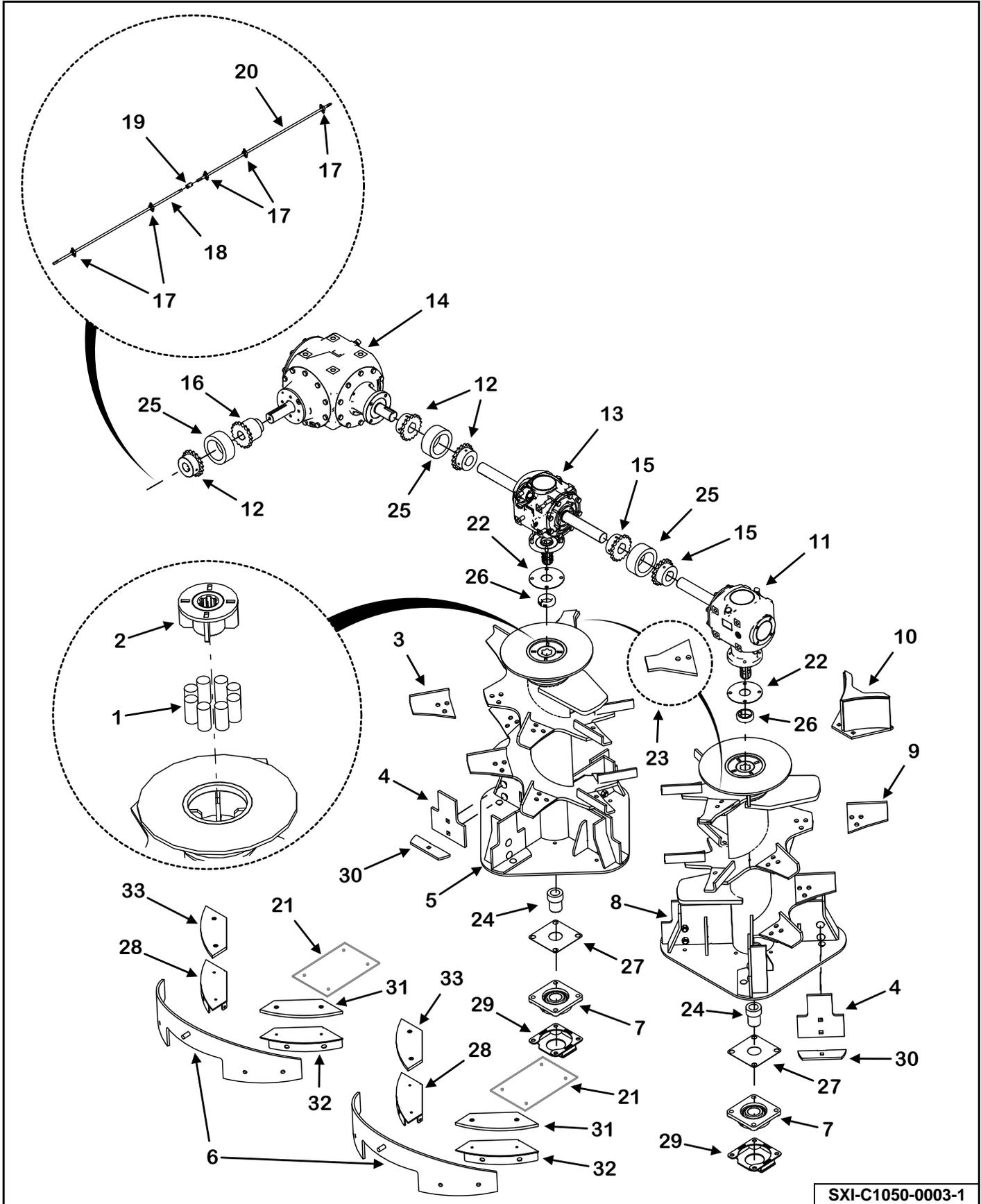
# AUGERS



SXI-C1050-0002-7

<b>KEY</b>	<b>PART NUMBER</b>	<b>QTY</b>	<b>DESCRIPTION</b>
1	926-0536	1	Left Auger Weldment
2	925-0636	1	T-Post Weldment
3	See Page 70	1	Auger Hold Down Collar
4	926-0536-2	2	Splined Sleeve
5	881-1008-2Z	2	1"-08 x 2" Machine Bolt
6	822-0010-Z	2	1" Split Lock Washer
7	926-0537-5	2	Rear Splined Sleeve With Washer Welded Assembly
8	926-0536-3	1	Splined Shaft
9	933-3704	1	Auger Washer
10	14-0325	2	Seal
11	See Page 66 & 68	2	Front Auger Bushing Assembly
12	926-0537-1	1	Splined Shaft
13	926-0537	1	Right Auger Weldment
14	49-0514	1	Plastic Washer
15	933-3802	1	Front Auger Washer
16	933-3753	1	3rd Auger Collar
17	926-0502	1	3rd Auger Weldment
18	933-0506	1	Nylon Washer
19	913-3701	1	Auger Nylon Bushing
20	925-3770	1	3rd Auger Bushing
21	926-0536-7	2	Front Auger Thrust Plate

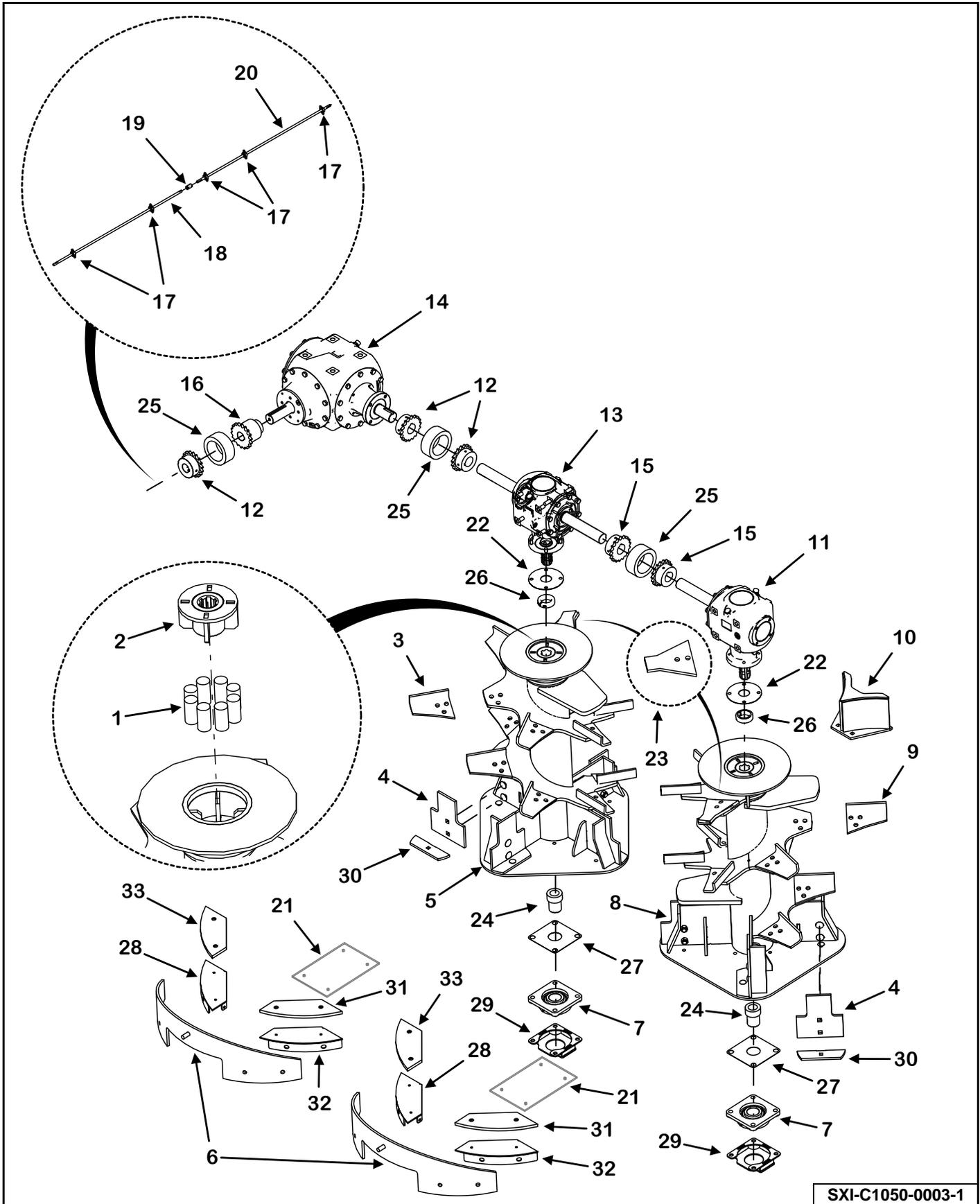
# SPINNERS & GEARBOXES



SXI-C1050-0003-1

KEY	PART NUMBER	QTY	DESCRIPTION
1	637-0008	16	Polyurethane Coupling Rod
2	901-13811	2	Upper Coupling Hub Weldment
3	901-0860	11	Right Spinner Tooth
	881-6311-1.5Z	33	5/8"-11 x 1-1/2" Machine Bolt
	886-6311-Z	33	5/8"-11 Center Lock Nut
4	901-0564	8	Lower Spinner Paddle
	850-6311-1.5Z	16	5/8"-11 x 1-1/2" Carriage Bolt
	814-6311-Z	16	5/8"-11 Hex Center Lock Nut
5	901-0878	1	Right Spinner Assembly (Includes Key #'s 1, 2 & 24)
6	901-0885	2	Expeller Liner Weldment
7	14-0072	2	4-Bolt Flange Bearing
	851-7510-2.5Z	8	3/4"-10 x 2-1/2" Machine Bolt
	886-7510-Z	8	3/4"-10 Center Lock Nut
8	901-0879	1	Left Spinner Assembly (Includes Key #'s 1, 2 & 24)
9	901-0862	11	Left Spinner Tooth
	881-6311-1.5Z	33	5/8"-11 x 1-1/2" Machine Bolt
	886-6311-Z	33	5/8"-11 Center Lock Nut
10	925-0565	1	Standard Spinner Deflector Weldment
11	See Page 84	1	Complete Left Spinner Gearbox
	851-M16-2.0-35-Z	4	M16-2.0 x 35mm Grade 8 Bolt
12	937-0010-1-HT	3	Chain Coupler
13	See Page 82	1	Complete Right Spinner Gearbox
	851-M16-2.0-35-Z	4	M16-2.0 x 35mm Grade 8 Bolt
14	See Page 80	1	Complete Corner Gearbox
	851-M16-2.0-40-Z	4	M16-2.0 x 40mm Grade 8 Bolt
15	937-0010-3	2	Chain Coupler
16	937-0504	1	Overrunning Clutch
17	914-3835	5	2-Bolt Flange Bearing
18	923-0546	1	Spinner Front Transfer Shaft
19	937-0503	1	1-3/4" Coupler With 4 Set Screws
20	923-0547	1	Spinner Rear Transfer Shaft

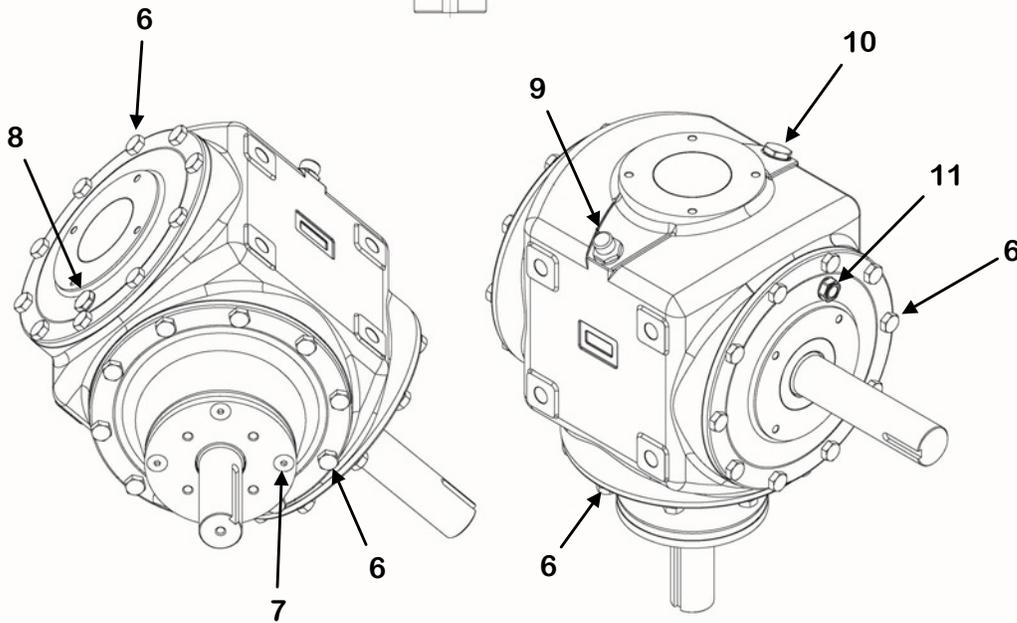
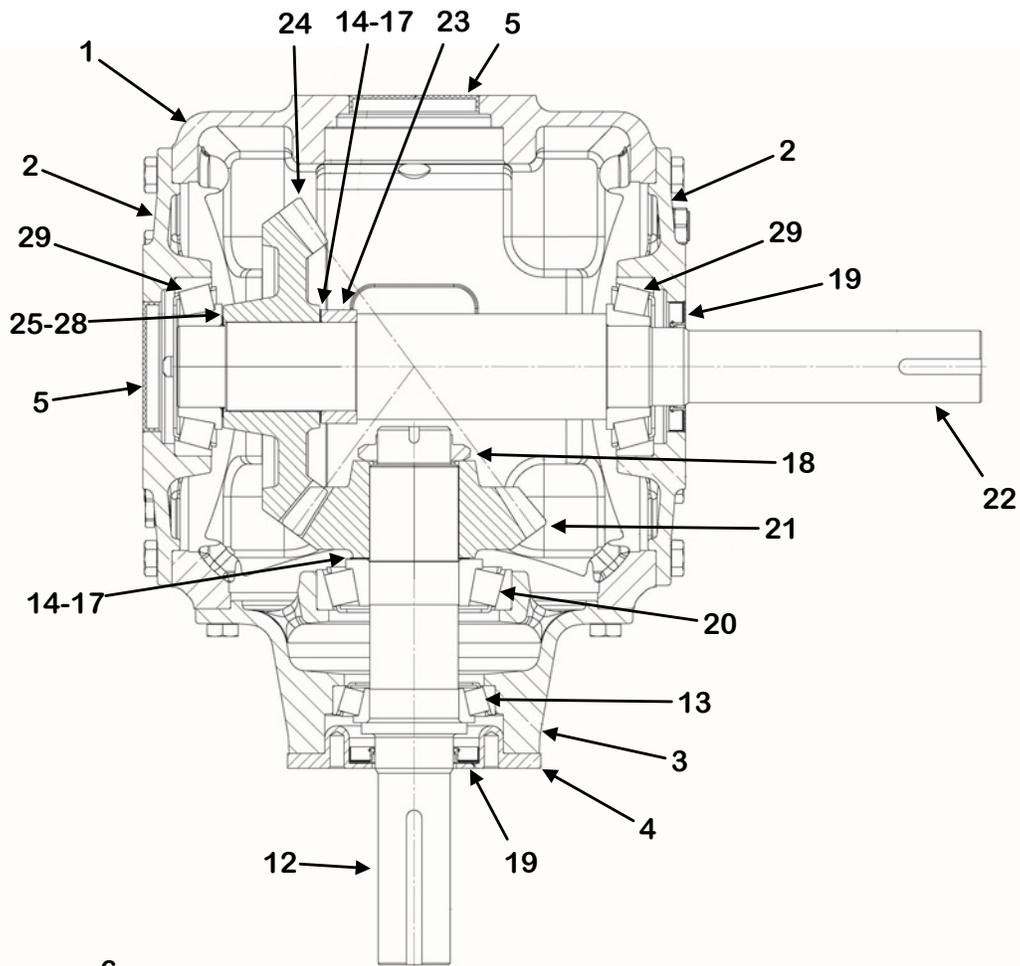
# SPINNERS & GEARBOXES (CONT'D)



SXI-C1050-0003-1

<b>KEY</b>	<b>PART NUMBER</b>	<b>QTY</b>	<b>DESCRIPTION</b>
21	901-0871-40	2	Spinner Poly Liner
22	901-0783	2	Seal Plate
23	901-0558-6	2	Top Spinner Tooth Only
	881-6311-1.75Z	4	5/8"-11 x 1-3/4" Machine Bolt
	886-6311-Z	4	5/8"-11 Center Lock Nut
24	901-0878-1-5	2	Spinner Shaft Sleeve (Welded On)
25	111-0060-18-CC	3	Coupling Chain With Connector Pin & Snap Plate
26	933-0507	2	1-3/4" Shaft Lock Collar
27	14-0072-NG	2	Backside Bearing Seal
	14-0072-NS	2	Rubber Bearing Backer
28	901-0960	2	Spinner Containment Plate Weldment
29	901-0843	2	Bearing Cover Weldment
30	901-0708	8	Spinner Wear Plate
	850-5013-1.25Z	8	1/2"-13 x 1-1/4" Carriage Bolt
	814-5013-Z	8	1/2"-13 Hex Center Lock Nut
31	901-0959-4	2	Plastic Spinner Liner
32	901-0959	2	Spinner Containment Plate Weldment
33	901-0960-1	2	Plastic Spinner Liner

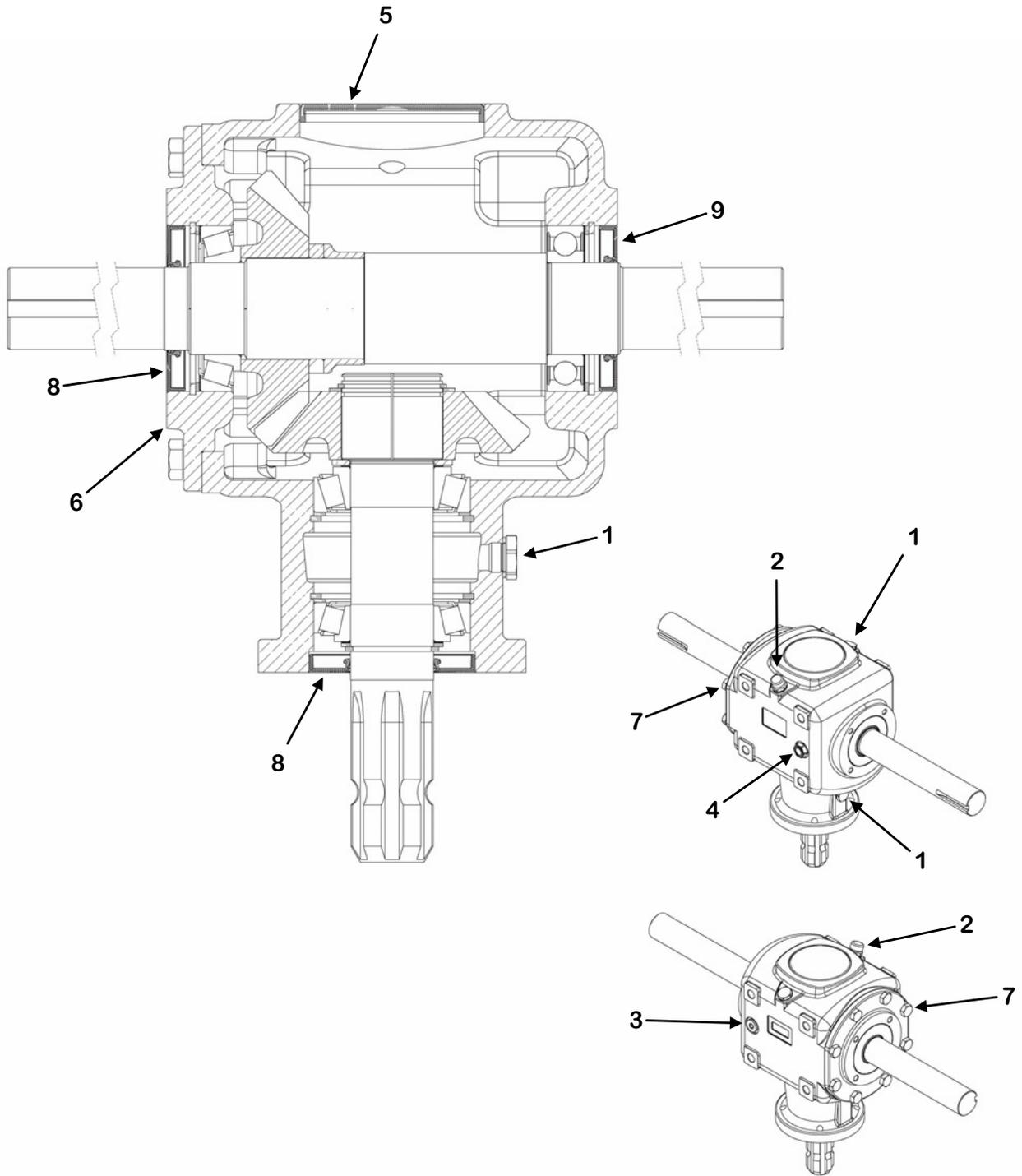
# CORNER GEARBOX



19-0070

<b>KEY</b>	<b>PART NUMBER</b>	<b>QTY</b>	<b>DESCRIPTION</b>
0	19-0070	1	Benzi R180 1.35:1 Corner Gearbox
1	19-0070-1	1	Casing
2	119-B-106	2	Closing Top
3	19-0070-2	1	Hub
4	119-B-107	1	Flange
5	119-B-59	2	Closing Cap
6	119-B-06	30	Bolt
7	119-B-108	4	Bolt
8	119-B-02	1	Level / Drain Plug
9	119-B-109	1	Breather Plug
10	119-B-110	1	Level / Drain Plug
11	119-B-58	1	See-Through Plug
12	19-0070-3	1	Shaft
13	19-0070-4	1	Taper Roller Bearing
14	19-0070-5	2	Shim
15	19-0070-6	2	Shim
16	19-0070-7	2	Shim
17	19-0070-8	2	Shim
18	19-0070-9	1	Lock Nut
19	119-B-111	2	Double Dust Lip Seal Ring
20	19-0070-10	1	Taper Bearing
21	19-0070-11	1	Bevel Gear
22	19-0070-12	1	Shaft
23	19-0070-13	1	Spacer
24	19-0070-14	1	Bevel Gear
25	19-0070-15	1	Shim
26	19-0070-16	1	Shim
27	19-0070-17	1	Shim
28	19-0070-18	1	Shim
29	19-0070-19	2	Taper Roller Bearing

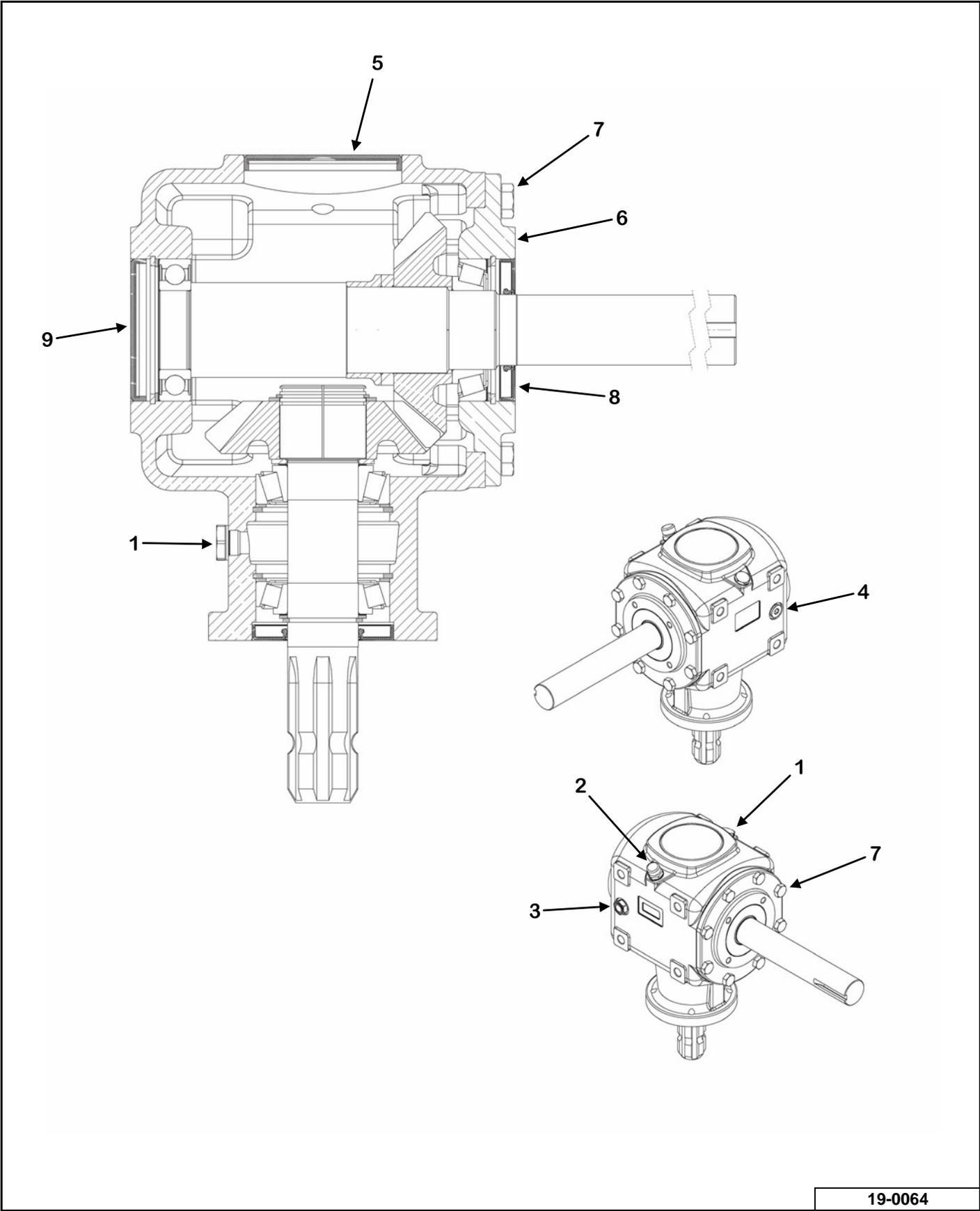
# RIGHT SPINNER GEARBOX



19-0065

<b>KEY</b>	<b>PART NUMBER</b>	<b>QTY</b>	<b>DESCRIPTION</b>
0	19-0065	1	Benzi Right Spinner Gearbox
1	119-B-02	1	Plug
2	119-B-03	1	Breather Plug
3	119-B-105	1	Drain Plug
4	119-B-58	1	Sight Glass Level Indicator
5	119-B-04	1	Rubber Cup
6	119-B-05	1	Cover
7	119-B-06	8	M12 x 30 Bolt
8	119-B-18	2	Oil Seal
9	119-B-54	1	Oil Seal

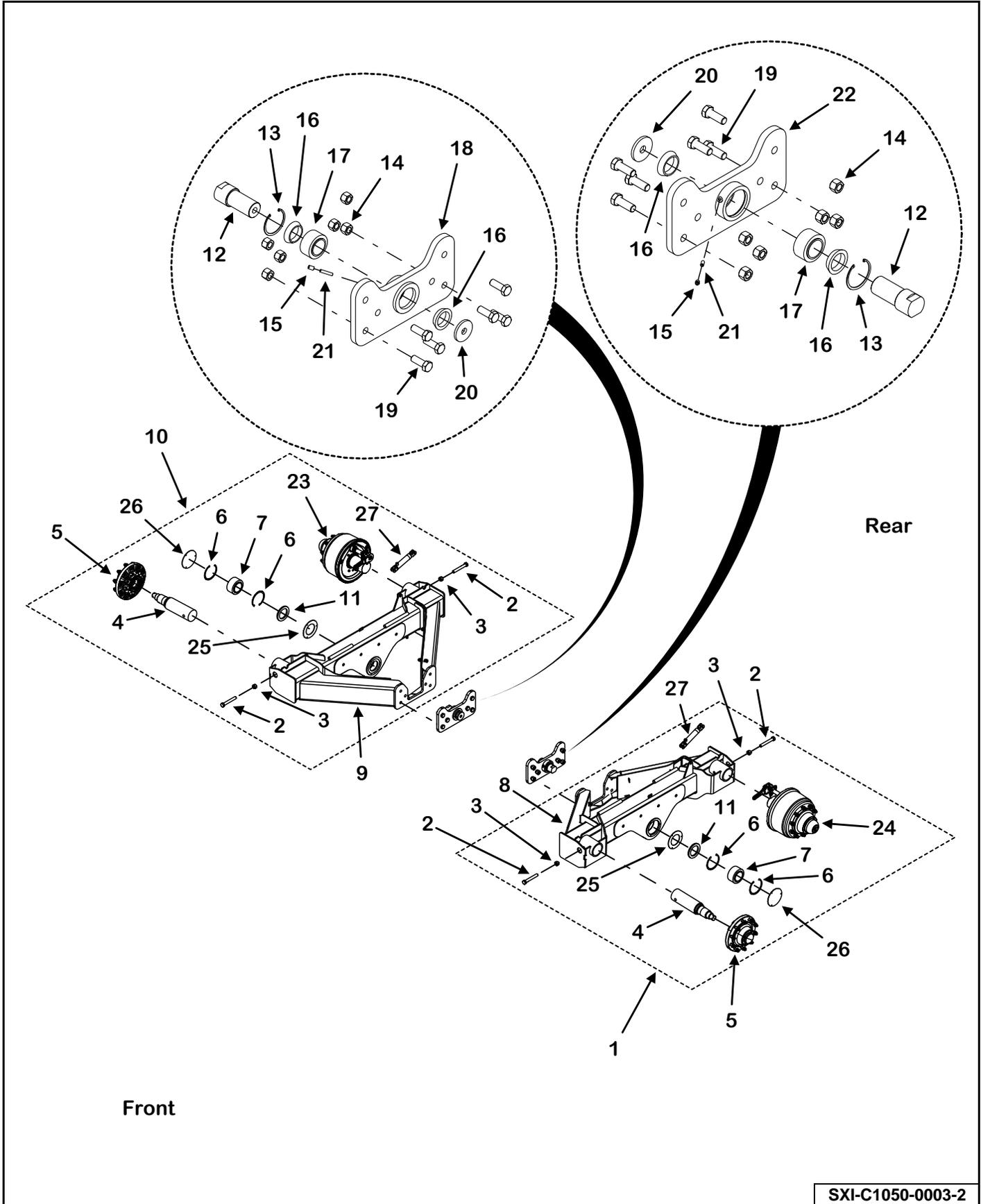
# LEFT SPINNER GEARBOX



19-0064

<b>KEY</b>	<b>PART NUMBER</b>	<b>QTY</b>	<b>DESCRIPTION</b>
0	19-0064	1	Benzi Left Spinner Gearbox
1	119-B-02	2	Plug
2	119-B-03	1	Breather Plug
3	119-B-58	1	Sight Glass Level Indicator
4	119-B-105	1	Drain Plug
5	119-B-04	1	Rubber Cup
6	119-B-05	1	Cover
7	119-B-06	8	M12 x 30 Bolt
8	119-B-86	2	Oil Seal
9	119-B-39	1	Rubber Cap

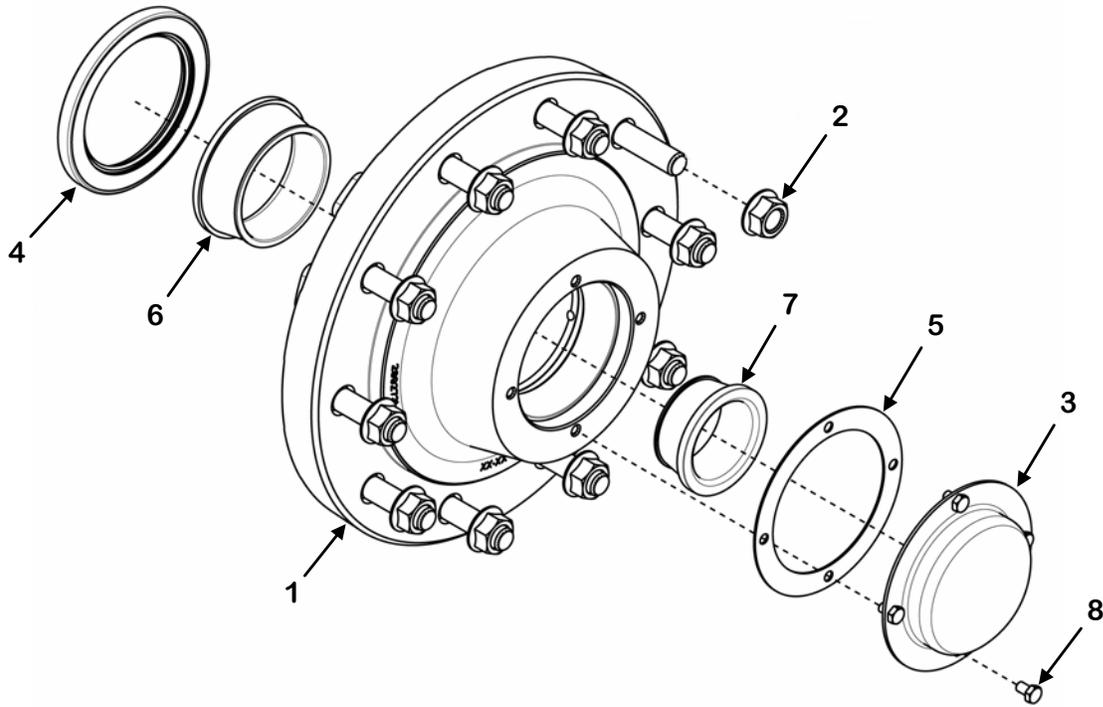
# SPINDLES & O-BEAMS



SXI-C1050-0003-2

KEY	PART NUMBER	QTY	DESCRIPTION
1	901-1016	1	Left O-Beam Assembly (With Brakes Only) (Includes Key #'s 13, 17, & 22)
2	881-1008-7Z	4	1"-8 x 7" Machine Bolt
3	814-1008-Z	4	1"-8 Indented Lock Nut
4	75-0220-1	2	O-Beam Spindle With Nut, Washer & Cotter Pin
5	See Page 88	2	Hub
6	33-0078	4	Internal Snap Ring
7	114-VM-0004	2	Sealed Spherical Bearing
8	901-1016-1	1	Left O-Beam Weldment
9	901-1017-1	1	Right O-Beam Weldment
10	901-1017	1	Right O-Beam Assembly (With Brakes Only) (Includes Key #'s 13, 17, & 18)
11	901-0870-5	2	O-Beam Seal
12	M1-10-0004-1-2	2	O-Beam Inner Bearing Pin
13	33-0056	2	Internal Snap Ring
14	884-1008-Z	12	1"-8 Top Lock Nut
15	30-0009	2	Brass Male Connector
16	M1-10-0004-1-1	4	O-Beam Inner Bearing Torque Collar
17	114-VM-0002	2	Plain Spherical Bearing
18	901-0891-1	1	Right O-Beam Inner Bearing Weldment
19	851-1008-2.75Z	12	1"-8 x 2-3/4" Hex Head Cap Screw
20	M1-10-0004-1-3	2	O-Beam Inner Bearing Washer
21	30-0019	2	1/8" NPT x 2" Grease Pipe
22	901-0887-1	1	Left O-Beam Inner Bearing Weldment
23	See Page 100	1	Right Side Brake Drum Assembly (Brakes Only)
24	See Page 100	1	Left Side Brake Drum Assembly (Brakes Only)
25	901-0870-4	2	O-Beam Inner Cap
26	901-0870-3	2	O-Beam Outer Cap
27	955-3772-SPO	2	Hydraulic Cylinder With Spring Pull Off

# HUB ASSEMBLY

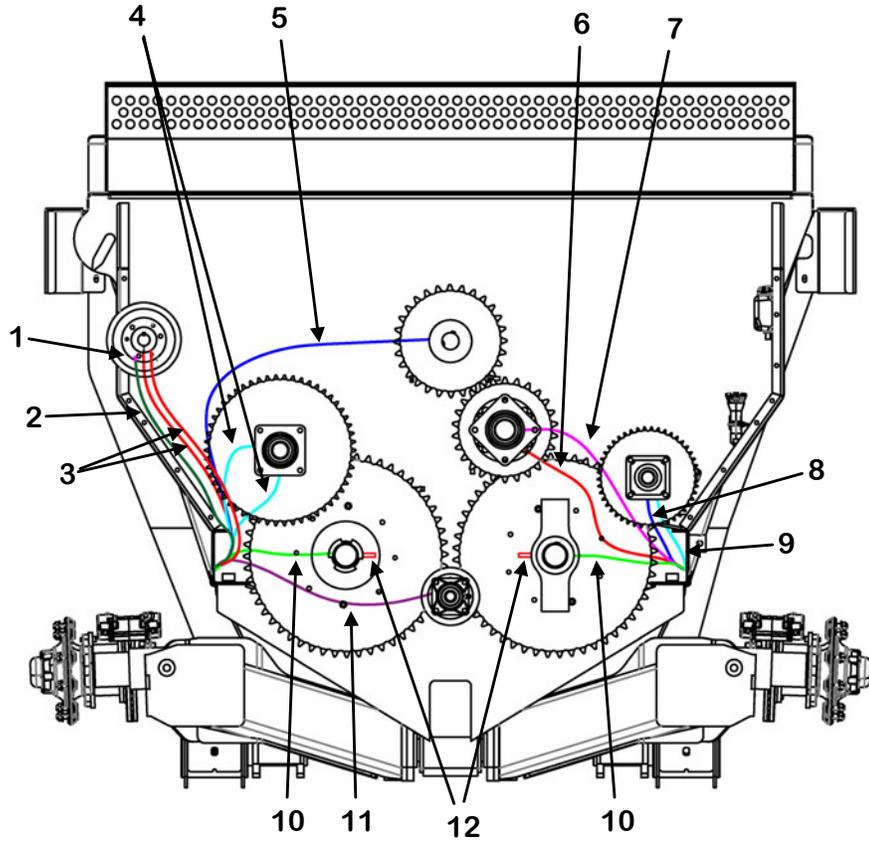


75-0214

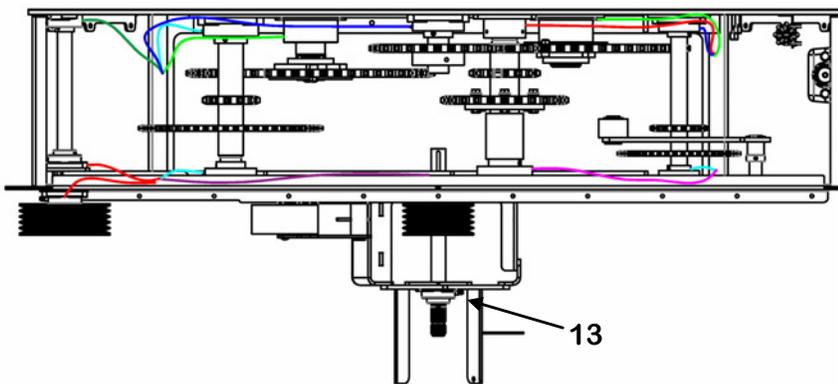
<b>KEY</b>	<b>PART NUMBER</b>	<b>QTY</b>	<b>DESCRIPTION</b>
0	75-0214	1	Hub Assembly
1	75-0214-1	1	Hub Only With Races & Studs
	75-0214-2	1	Bearing Cup
	75-0214-3	1	Bearing Cup
2	75-0208-11	10	3/4"-16 Lug Nut-Flanged, Grade 8, Torque 378 ft/lbs
3	75-0216-3	1	Hub Cap
4	75-0213-2	1	Grease Seal
5	75-0213-11	1	Hub Cap Gasket
6	75-0214-4	1	Inner Bearing Cone
7	75-0214-5	1	Outer Bearing Cone
8	75-0208-13	4	Hex Bolt, 5/16"-18 x .75

# FRONT GREASE HOSES

## Front Drive System Front View



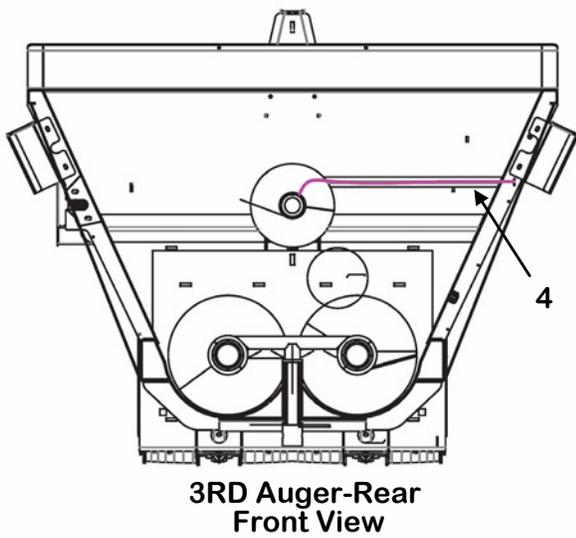
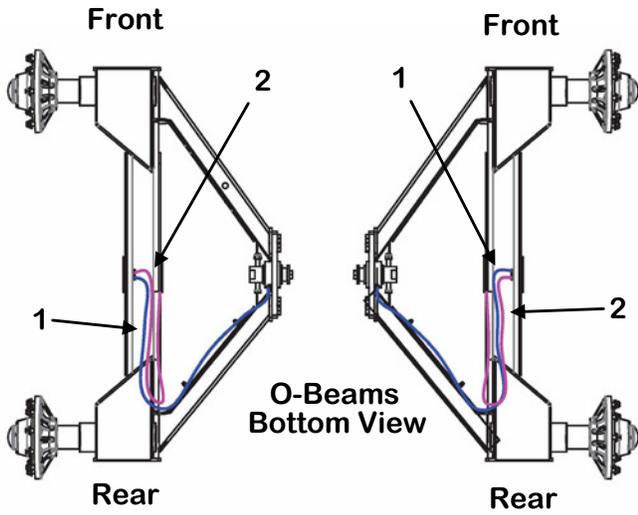
## Front Drive System Top Drive



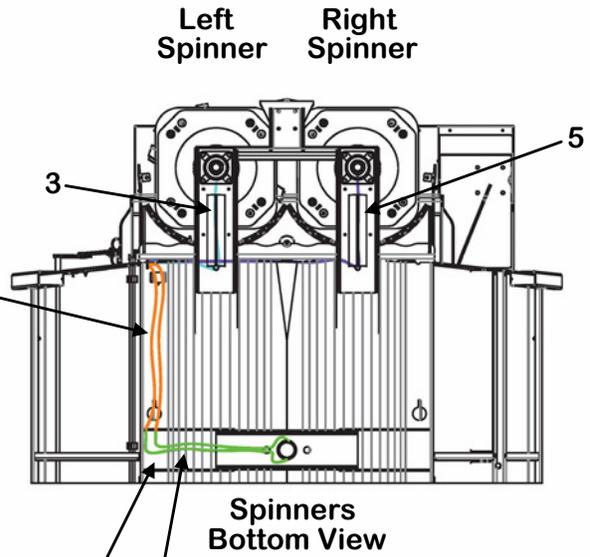
SXI-C1050-0004-1

KEY	PART NUMBER	QTY	DESCRIPTION
1	930-3601	1	Straight Grease Fitting
2	155-02R7-47-1-1	1	1/8" x 47" Grease Hose Assembly
3	155-02R7-44-1-1	2	1/8" x 44" Grease Hose Assembly
4	155-02R7-24-1-1	2	1/8" x 24" Grease Hose Assembly
5	155-02R7-66-1-1	1	1/8" x 66" Grease Hose Assembly
6	155-02R7-33-1-1	1	1/8" x 33" Grease Hose Assembly
7	155-02R7-36-1-1	1	1/8" x 36" Grease Hose Assembly
8	155-02R7-14-1-1	1	1/8" x 14" Grease Hose Assembly
9	155-02R7-20-1-1	1	1/8" x 20" Grease Hose Assembly
10	155-02R7-17-1-1	1	1/8" x 17" Grease Hose Assembly
11	155-02R7-41-1-1	1	1/8" x 41" Grease Hose Assembly
12	33-8002-1	2	5/32" x 1/8" Oiler Male Connector
13	30-0023	1	1/8" NPT x 2-1/2" Nipple
	30-0009	1	1/8" NPT x 3/4" Coupler
	30-0002	1	1/8" NPT Straight Fitting

# O-BEAMS & REAR GREASE HOSES



Truck Mount  
Hose Routing Only

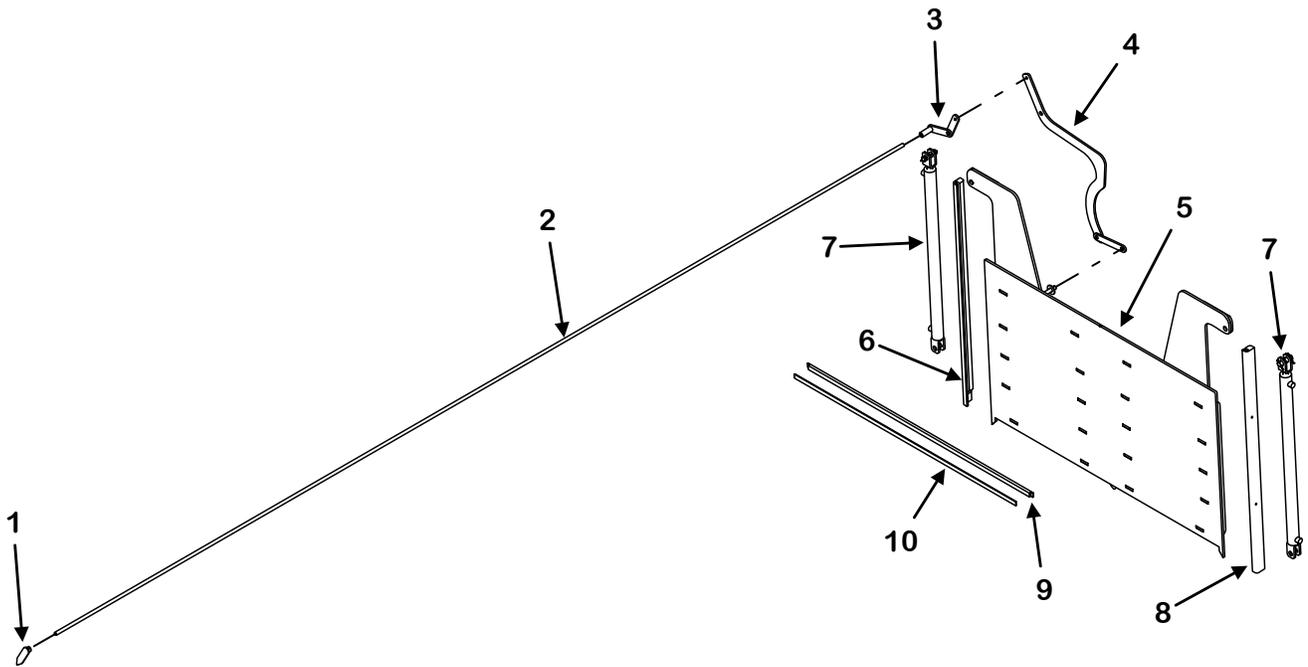


Trailer Mount  
Hose Routing Only

SXI-C-0009-1

KEY	PART NUMBER	QTY	DESCRIPTION
1	155-02R7-59-1-1	2	O-Beam Inner Bearing 1/8" x 59" Grease Hose Assembly
	155-2GK-NUT	2	Bulkhead Adapter Nut
	30-0001	2	1/4"-28 Straight Fitting
2	155-02R7-66-1-1	2	O-Beam Outer Bearing 1/8" x 66" Grease Hose Assembly
	155-2GK-NUT	2	Bulkhead Adapter Nut
	30-0001	2	1/4"-28 Straight Fitting
3	155-02R7-47-1-1	1	1/8" x 47" Grease Hose Assembly
	155-2GK-NUT	1	Bulkhead Adapter Nut
	30-0001	1	1/4"-28 Straight Fitting
4	155-02R7-50-1-1	1	1/8" x 50" Grease Hose Assembly
	155-2GK-NUT	1	Bulkhead Adapter Nut
	30-0003	1	1/4"-28 45 Degree Fitting
5	155-02R7-76-1-1	1	1/8" x 76" Grease Hose Assembly
	155-2GK-NUT	1	Bulkhead Adapter Nut
	30-0001	1	1/4"-28 Straight Fitting
6	155-02R7-36-1-1	2	1/8" x 36" Grease Hose Assembly (Trailer Mount)
	155-02R7-81-1-1	2	1/8" x 81" Grease Hose Assembly (Truck Mount)
	155-2GK-NUT	2	Bulkhead Adapter Nut
	30-0001	2	1/4"-28 Straight Fitting

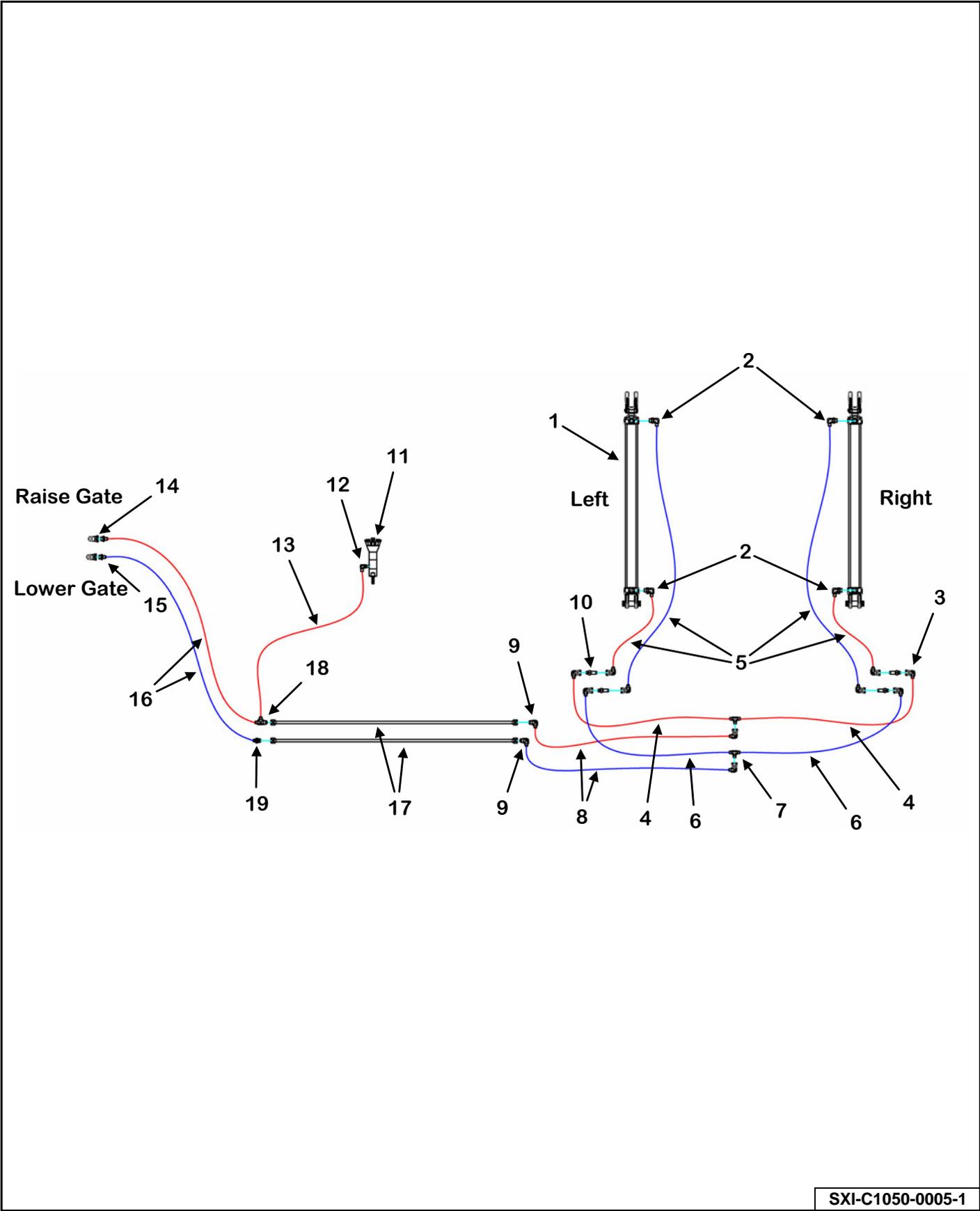
# REAR GATE



SXI-C1050-0002-8

<b>KEY</b>	<b>PART NUMBER</b>	<b>QTY</b>	<b>DESCRIPTION</b>
1	925-0508	1	Gate Indicator Weldment
2	925-0633	1	Indicator Pipe
3	925-3767	1	Indicator Linkage Arm Weldment
4	925-0632	1	Door Linkage Assembly
5	901-0880	1	Rear Door Weldment
6	949-0512	1	Right Poly Door Slide
7	See Page 96	2	Gate Hydraulics
8	949-0513	1	Left Poly Door Slide
9	949-0508	1	Poly Door Top Seal
10	901-0871-47	1	Door Seal Spacer

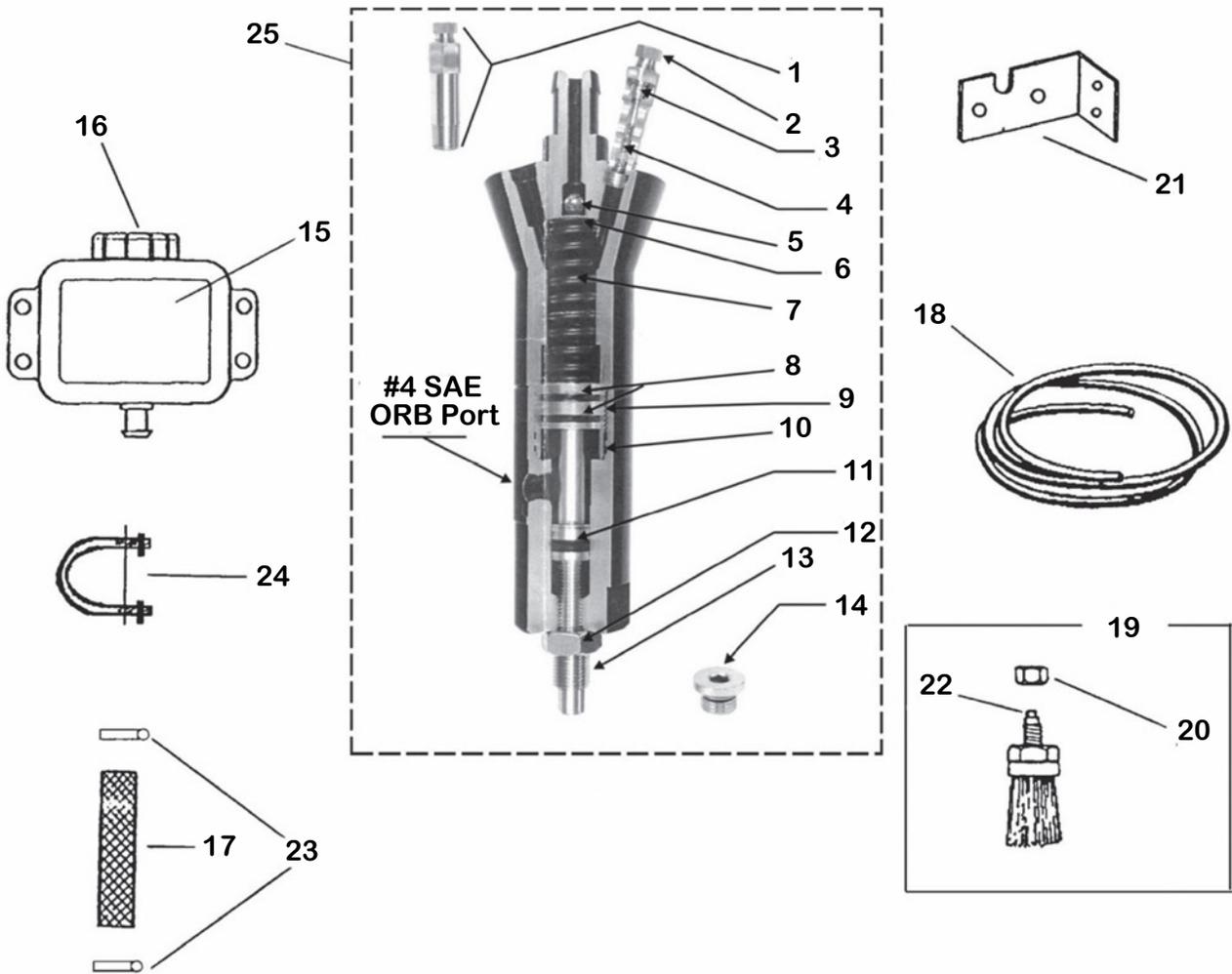
# GATE HYDRAULICS



SXI-C1050-0005-1

<b>KEY</b>	<b>PART NUMBER</b>	<b>QTY</b>	<b>DESCRIPTION</b>
1	155-2-38-1.125-1	2	2" x 38" x 1-1/8" Hydraulic Cylinder
2	155-6801-6-8	4	90° Elbow
3	155-6500-06-06	10	90° Elbow
4	155-06R17-62-1	2	3/8" x 62" Hose
5	155-06R17-17-1	4	3/8" x 17" Hose
6	155-06R17-65-1	2	3/8" x 65" Hose
7	155-2603-06-06-06	2	Tee
8	155-06R17-58-1	2	3/8" x 58" Hose
9	155-2500-08-06	2	90° Elbow
10	155-2700-LN-06-06	4	Straight Bulkhead Adapter
11	See Page 98	1	Oil-Kit
12	155-6801-06-04	1	90° Elbow
13	155-04R17-19-1	1	1/4" x 19" Hose
14	155-8010-15	2	ORB Male Tip
15	155-6400-6-8	2	Straight Connector
16	155-06R17-190-1	2	3/8" x 190" Hose
17	55-0369	2	1/2" x 242" Hydraulic Tube
18	155-2603-08-06-06	1	Tee
19	155-2403-08-06	1	Straight Adapter

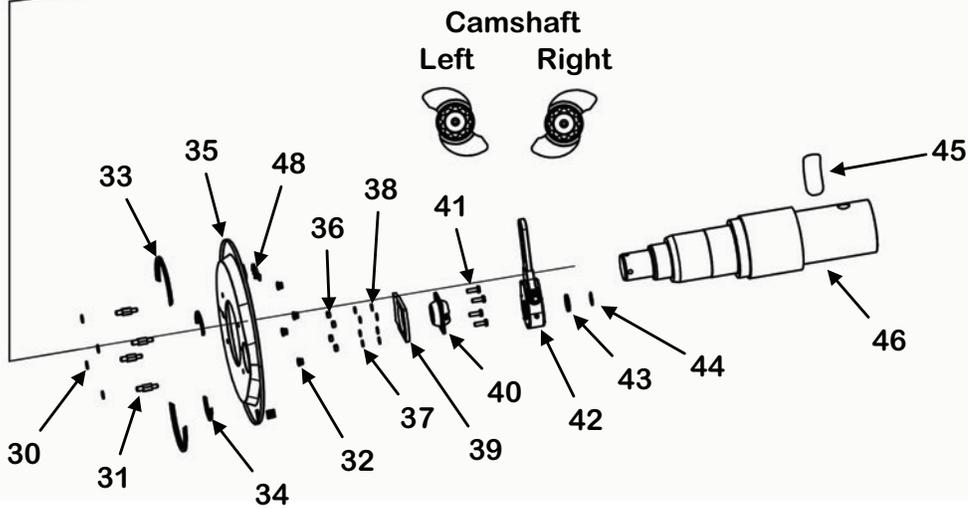
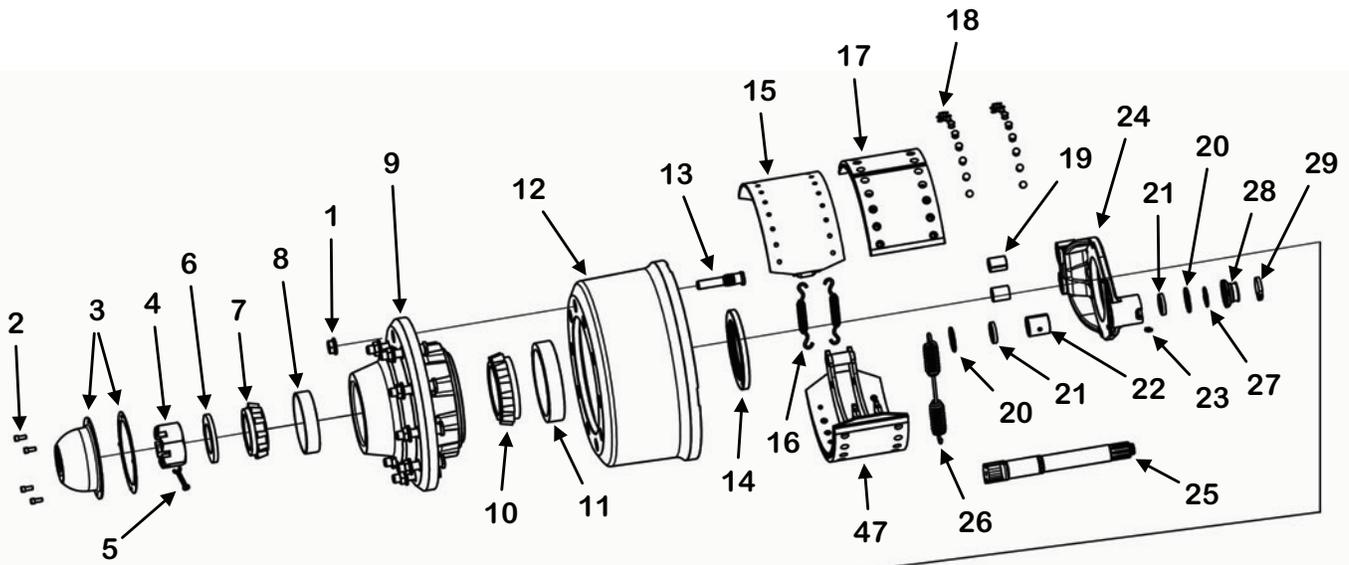
# OIL-KIT



SXI-C-0012-1

<b>KEY</b>	<b>PART NUMBER</b>	<b>DESCRIPTION</b>
1	952-0001-1-33	Holder, Manifold Valve Assembly
2	952-0001-1-27	Sleeve Nut Brass
3	952-0001-1-28	5/32" Brass Ferrule
4	952-0001-1-9	One Way Valve (Schrader Valve)
5	952-0001-1-11	Bearing, 7/16" Stainless
6	952-0001-1-10	Screen Flat Oiler .906 Diameter
7	952-0001-1-5	Spring, Oiler
8	952-0001-1-8	O-Ring, Oiler Piston
9	952-0001-1-4	Piston, 2 Groove Alum, Short
10	952-0001-1-6	Washer, Rubber Lube Minder
11	952-0001-1-7	O-Ring, Adjustable End Cap Plunger
12	952-0001-1-16	1/2"-20 Jam Nut
13	952-0001-1-3	Plunger, Brass Adjustable End Cap
14	952-0001-1-32	1/8" Hex Head Pipe Plug
15	952-0001-1-18	Reservoir Two Quart Tank
16	952-0001-1-35	Reservoir Cap Only
17	952-0001-1-20	Tubing 5/8" ID Clear Polybraid
18	952-0001-1-21	Tubing 5/32" Nylon (Feet)
19	952-0001-1-25	Brush Assembly No 5/32" Insert
20	813-5020-Z	1/2"-20 Plated Nut
21	952-0001-1-17	Bracket Oiler Mounting Pump
22	952-0001-1-14	5/32" Push In Insert (Nycoil)
23	952-0001-1-30	1" Hose Clamp
24	952-0001-1-31	U-Bolt Assembly # 9
25	952-0001-1-36	Oiler Body Pump Assembly, Complete

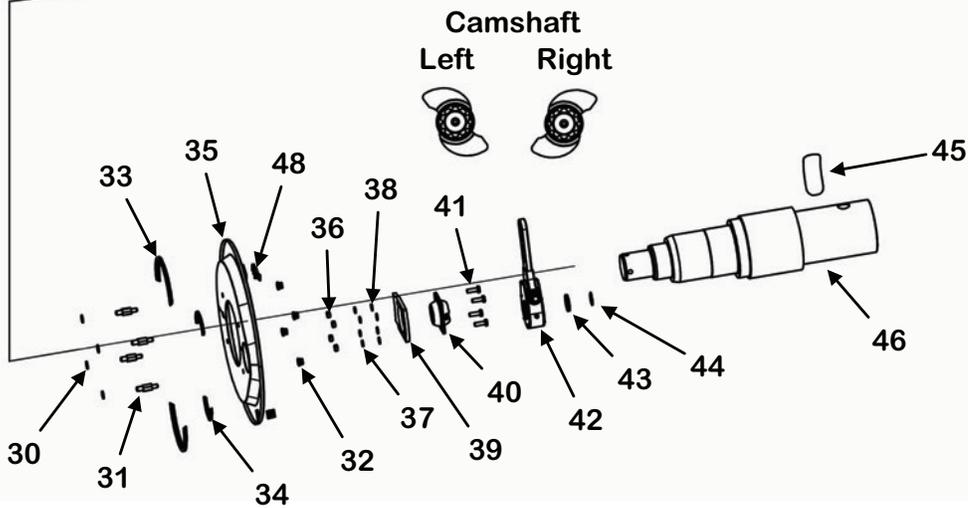
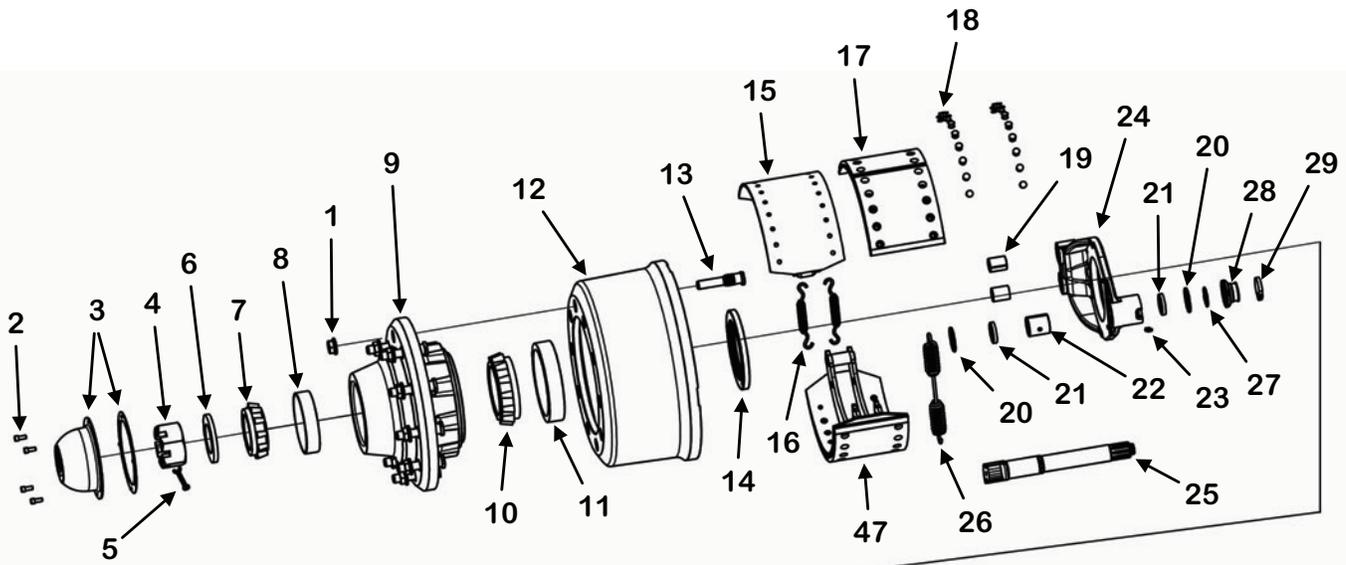
# DRUM BRAKE ASSEMBLY



975-0300&1

KEY	PART NUMBER	QTY	DESCRIPTION
0	975-0300	1	Right Side Drum Brake Assembly
	975-0301	1	Left Side Drum Brake Assembly
1	975-0301-4-1	10	Lug Nut
2	975-0301-1-1	4	5/16" Screw
3	975-0301-1-2	1	Cap
4	975-0301-2-1	1	Crown Nut
5	975-0301-2-2	1	Split Pin
6	975-0301-2-3	1	Washer
7	975-0301-3-1	1	Cone Bearing
8	975-0301-3-2	1	Cup
9	975-0301-5	1	Hub
10	975-0301-3-3	1	Cone Bearing
11	975-0301-3-4	1	Cup
12	975-0301-8	1	Drum Kit
13	975-0301-7-1	10	Stud
14	975-0301-6-1	1	Grease Seal
15	975-0301-15	2	Brake Shoe
16	975-0301-9-1	2	Spring
17	775-0002-1-25	4	Liner
18	775-0002-1-26	40	Rivet
19	75-4505-1-19	2	Bushing
20	75-4505-1-6	2	Washer
21	75-4505-1-7	2	Grease Seal
22	75-4505-1-8	1	Bushing
23	75-4505-1-17	1	Grease Zerk Straight
24	975-0301-16	1	Spyder
25	975-0301-12	1	Left Cam Shaft
	975-0300-1	1	Right Cam Shaft
26	975-0301-9-2	1	Spring
27	75-4500-1-3-21	1	Snap Ring
28	775-0002-1-23	1	Rubber Cap
29	75-4505-1-48	1	Hose Clamp
30	975-0301-13-1	4	Washer
31	775-0002-1-18	4	Spacer
32	75-4505-1-13	4	Lock Nut
33	975-0301-13-2	2	Gasket
34	975-0301-13-3	2	Gasket

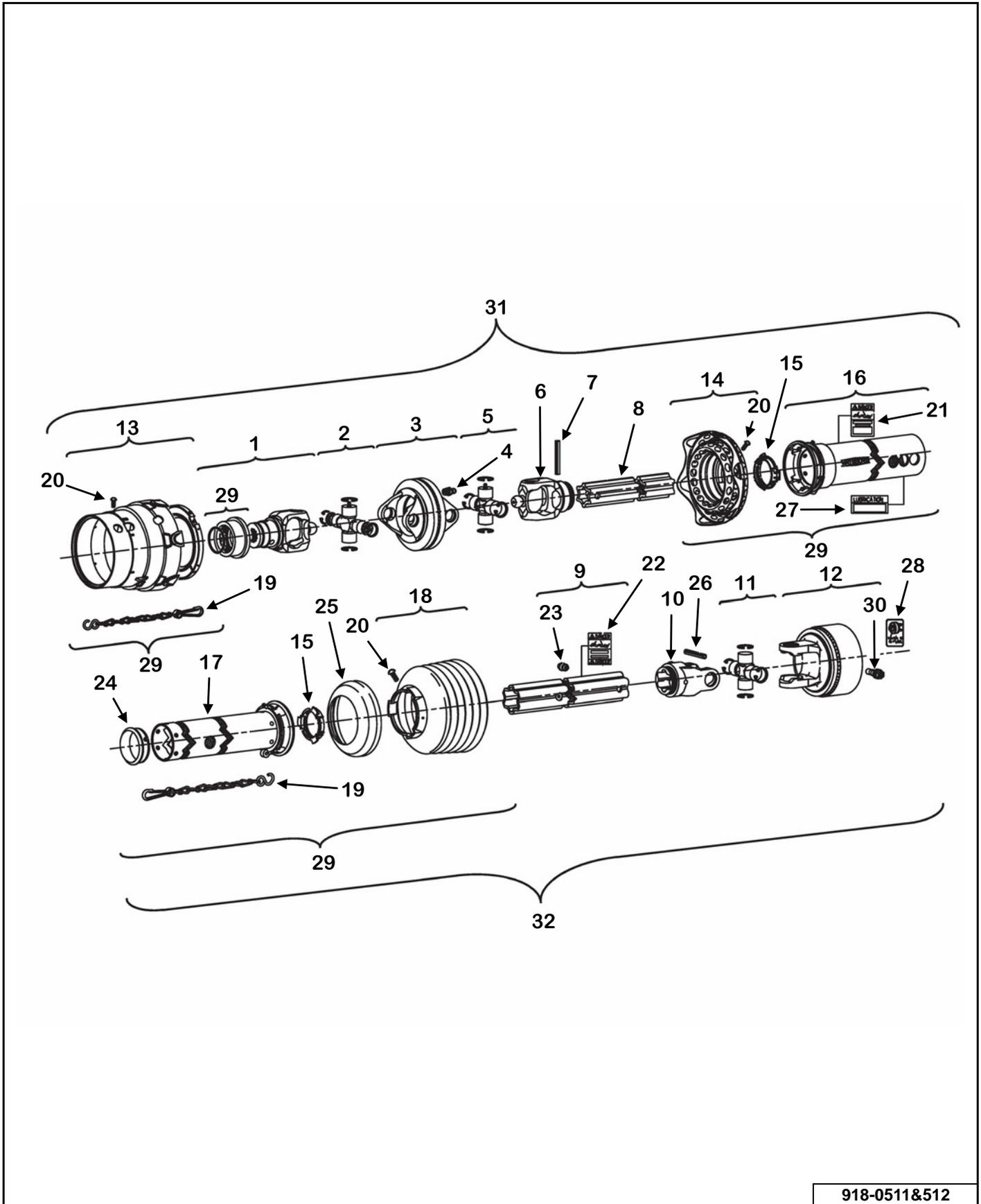
# DRUM BRAKE ASSEMBLY (CONT'D)



975-0300&1

<b>KEY</b>	<b>PART NUMBER</b>	<b>QTY</b>	<b>DESCRIPTION</b>
35	975-0301-13-4	1	Protection Plate
36	675-0001-14-1	4	Nut
37	675-0001-14-2	4	Washer
38	675-0001-14-3	4	Washer
39	975-0301-17	1	Support
40	675-0001-14-4	1	Support
41	675-0001-14-5	4	Screw
42	75-4500-1-3-1	1	Slack Adjuster
43	75-4500-1-3-2	1	Washer
44	75-4500-1-3-24	1	Snap Ring
45	975-0301-18	1	ID Label
46	975-0301-19	1	Stub Axle
47	775-0002-1-16	1	Complete Brake Shoe
48	975-0301-13-5	2	Cap

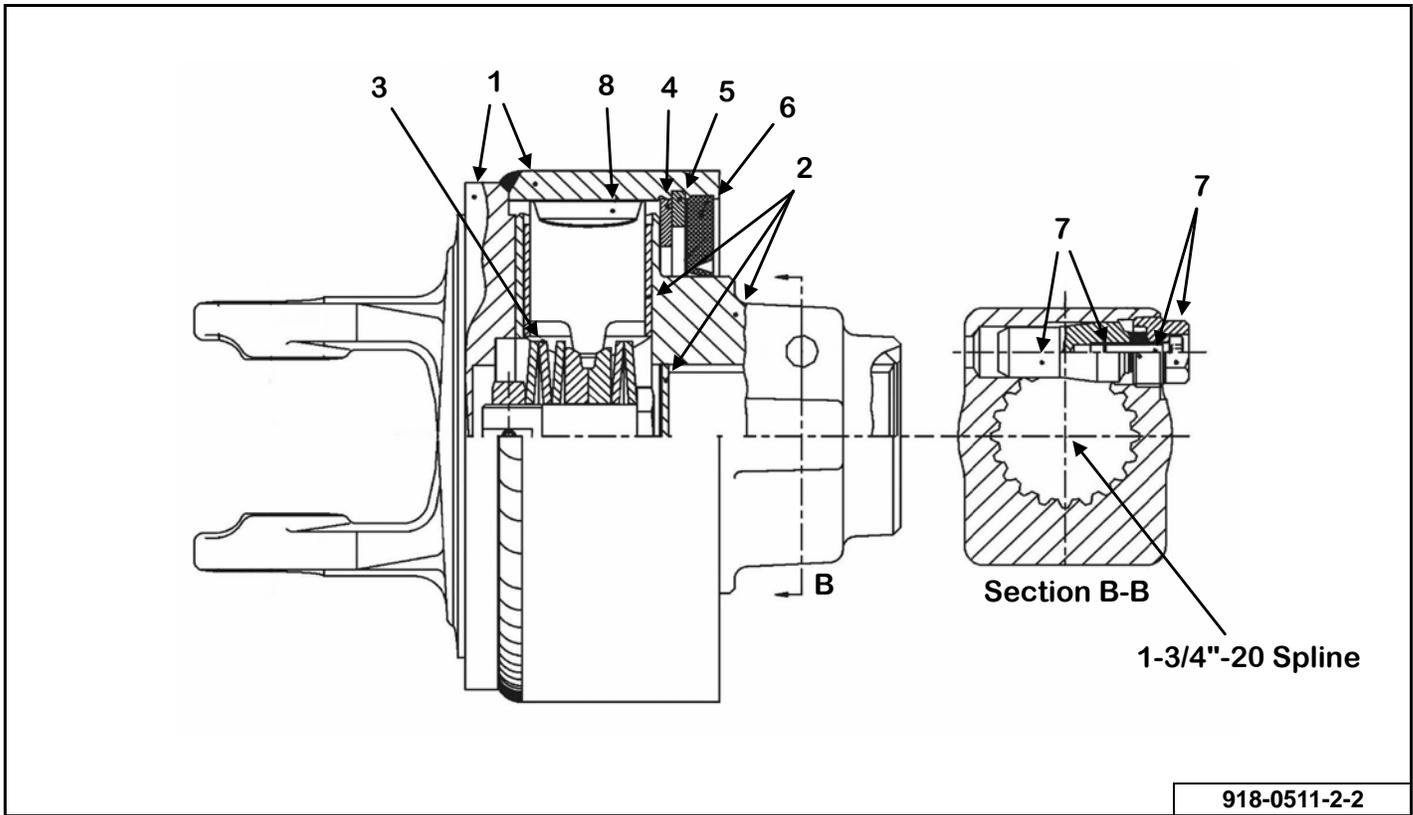
# PTO DRIVE SHAFT



918-0511&512

KEY	PART NUMBER	QTY	DESCRIPTION
0	918-0512	1	1-3/4" 20 Spline Complete PTO
1	918-0512-1-1	1	1-3/4" 20 Spline Yoke
2	918-0511-1-2	1	Cross & Bearing Kit
3	918-0511-1-3	1	Double Yoke
4	918-0208-1-2	1	Grease Zerk
5	918-0511-1-4	1	Cross & Bearing Kit
6	918-0511-1-5	1	Inboard Yoke
7	918-0308-1-5	1	Spring Pin
8	918-0511-1-6	1	Inner Profile
9	918-0511-2-1	1	Outer Profile
10	618-0201-2-2	1	Inboard Yoke
11	618-0201-1-2	1	Cross & Bearing Kit
12	See Page 106	1	Complete Cut-Out Clutch
13	618-0202-1-11	1	CV Guard & Bearing Assembly
14	918-0212-1-5	1	Flex Net & Guard Assembly
15	918-0208-2-4	2	Bearing Ring
16	918-0511-1-7	1	Guard Tube Outer
17	918-0511-2-3	1	Guard Tube Inner
18	618-0202-2-7	1	Guard Cone
19	918-0208-2-7	2	Restraint Chain
20	918-0208-2-9	10	Screw
21	918-0208-2-8	1	Decal Outer
22	918-0208-1-10	1	Decal Inner
23	918-0208-1-12	1	Grease Zerk
24	618-0202-1-10	1	Support Bearing
25	618-0202-2-8	1	Reinforcing Collar
26	618-0202-2-5	1	Spring Pin
27	918-0308-2-6	1	Lubrication Decal
28	918-0208-2-10	1	Decal
29	918-0210-1-1-1	1	Collar Kit
30	918-0410-2-1-1	1	Cut-Out Clutch Lock Assembly
31	918-0512-1	1	Tractor Half Shaft
32	918-0511-2	1	Implement Half Shaft

## CUT-OUT CLUTCH



918-0511-2-2

KEY	PART NUMBER	QTY	DESCRIPTION
0	918-0511-2-2	1	Cut-Out Clutch
1	618-0202-2-3-1	1	Housing
2	618-0003-2-1	1	Hub
3	918-0308-2-2-3	1	Spring Pack
4	918-0208-2-3-5	1	Washer
5	918-0208-2-3-6	1	Retaining Ring
6	918-0208-2-3-7	1	Sealing Ring
7	918-0410-2-1-1	1	Clamp Cone Locking Pin
8	918-0308-2-2-4	2	Cam
NS	918-0208-2-3-9	2	Bushing-In Item #2
NS	918-0208-2-3-11	1	Shim Kit

# 10.0 SPECIFICATIONS

DIMENSIONS / SPECIFICATIONS		
	Industrial SXI1050 Trailer Type W/ 28LX26 Tires	Industrial SXI1050 Truck Mount W/ Mount Brackets
<b>CAPACITY</b> Bushels Heaped Gallons/Cu.ft. (struck) Cu. yards. (struck)	<b>1050</b> <b>5100/682</b> <b>25.25 cu. yards</b>	
<b>DIMENSIONS</b>		
Overall Length		
Inside Tank Length		
Loading Height		
Overall Height - Top of splash shield / guard		
Overall Width (std. axle) Outside Tires		
Overall Width w/high flotation axle pkg.		
Top Inside Tank Width		
<b>SPECIFICATIONS</b>		
Total Weight	24,880	
Maximum Load Net (Lbs.)	100,000#	
Lower Auger Diameter		
Lower Auger Flighting Thickness		
Independent Lower Auger Shear Hub Sprockets		
3rd Auger (solid material)		
Drive - PTO-RPM		
Drive Line Protection		
Roller Chain Drive - Auger		
Belt Drive - Expeller		
Roller Chain Auto Oiler		
Expeller Speed (RPM)		
Expeller Diameter		

<b>DIMENSIONS / SPECIFICATIONS</b>		
	<b>Industrial SX11050 Trailer Type W/ 28LX26 Tires</b>	<b>Industrial SX11050 Truck Mount W/ Mount Brackets</b>
<b>TANK CONSTRUCTION</b>		
Material		
Thickness - Auger Troughs		
Thickness - Tank Sides		
Frame Construction		
Door Opening		
Standard Axle Spindle Diameter		
High Flotation Axle Spindle Diameter		
Standard Axle Hub Size		
High Flotation Axle Hub Size		
Splash Shields-Standard		
LED transport lights w/AG plug		
Tractor Requirement PTO HP (Min.)		
<b>OPTIONS</b>		
1000 RPM 1 3/4"-20 spline		
Hydraulic Lid		
Poultry Litter Package		
High Flotation Axle Package		
Hyd. Brakes-HF axle only		
Safety Chain		
Truck Mount Drive Options		
Variable Speed Auger Drive		









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