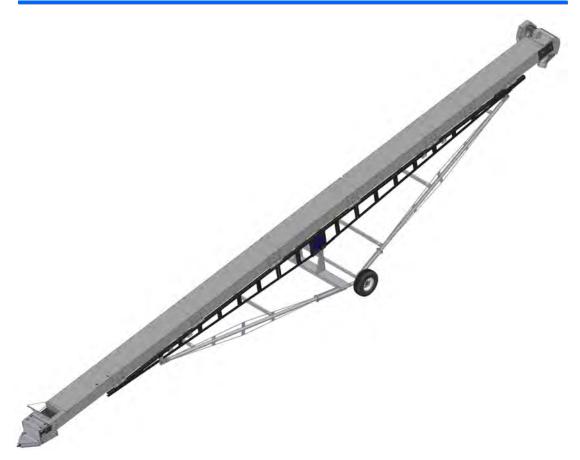


S4000 BIN FILL CONVEYOR



Operator's Manual













INTRODUCTION

Thank you for choosing USC, LLC for your equipment needs. We appreciate your business and will work diligently to ensure that you are satisfied with your choice.

OVERVIEW

The purpose of this manual is to provide you with the basic information needed to operate and maintain the Series 4000 Bin Fill Conveyor. It does not hold USC, LLC liable for any accidents or injuries that may occur.

OPERATOR RESPONSIBILITIES

As the purchaser/owner/operator of this equipment and control system, you have an obligation to install, operate, and maintain the equipment in a manner that minimizes the exposure of people in your care to any potential hazards inherent in using this equipment. It is critical that the owner of this equipment:

- Has a clear and documented understanding of the process this machine is being used in and of any resulting hazards or special requirements arising from this specific application.
- Allow only properly trained and instructed personnel to install, operate, or service this equipment.
- Maintain a comprehensive safety program involving all who work with this machine and other associated process equipment.
- Establish clear areas of staff responsibility (e.g. operation, setup, sanitation, maintenance, and repairs).
- Provide all personnel with necessary safety equipment.
- Periodically inspect the equipment to insure that the doors, covers, guards, and safety devices are in place and functioning, that all safety instructions and warning labels are intact and legible, and that the equipment is in good working order.
- In addition to the operating instructions, observe and enforce the applicable legal and other binding regulations, national and local codes.

As the person with the most to gain or loose from working safely, it is important that you work responsibly and stay alert. By following a few simple rules, you can prevent an accident that could injure or kill you or a co-worker.

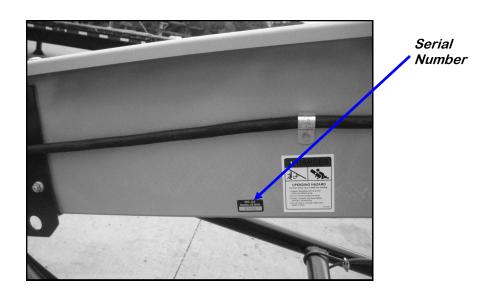
• Disconnect, lockout, and tagout electrical and all other energy sources before inspecting, cleaning, servicing, repairing, or any other activity that would expose you to the hazards of electrical shock.

- Do not operate, clean, or service this equipment until you have read and understood the contents of this manual. If you do not understand the information in this manual, bring it to the attention of your supervisor, or call your local USC dealer for assistance.
- Any operator who is known or suspected to be under the influence of alcohol or drugs should not be allowed to operate the equipment.
- Understand and follow the safety practices required by your employer and this manual.
- PAY ATTENTION to what you and other personnel are doing and how these activities may affect your safety.
- Failure to follow these instructions may result in serious personal injury or death.

RECEIVING YOUR EQUIPMENT

As soon as the equipment is received, it should be carefully inspected to make certain that it has sustained no damage during shipment and that all items listed on the packing list are accounted for. If there is any damage or shortages, the purchaser must immediately notify your USC dealer. Ownership passes to purchaser when the unit leaves the USC, LLC. premises. The purchaser is responsible for unloading and mounting all components of the equipment.

Document the serial number of the machine for future reference. The serial number is located on the side of the conveyor near the hitch.



SERIAL NUMBER:



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SAFETY INSTRUCTIONS

SECTION A

Every year accidents in the work place maim, kill, and injure people. Although it may be impossible to prevent all accidents, with the right combination of training, operating practices, safety devices, and operator vigilance, the number of accidents can be significantly reduced. The purpose of this section is to educate equipment users about hazards, unsafe practices, and recommended hazard avoidance techniques.

SAFETY WORDS AND SYMBOLS

It is very important that operators and maintenance personnel understand the words and symbols that are used to communicate safety information. Safety words, their meaning and format, have been standardized for U.S. manufacturers and published by the American National Standards Institute (ANSI). The European Community (E.C.) has adopted a different format based on the International Standards Organization (I.S.O.) and applicable machinery directives. Both formats are presented below. Graphic symbols are not standardized, but most manufacturers will use some variation of the ones seen in this manual.



Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



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



Indicates a potentially hazardous situation which, if not avoided, **may** result in minor or moderate injury and/or property damage.



Provides additional information that the operator needs to be aware of to avoid a potentially hazardous situation.



Mandatory Lockout Power Symbol. Disconnect, lockout, and tagout electrical and other energy sources before inspecting, cleaning, or performing maintenance on this panel.



International Safety Alert Symbol. The exclamation point (!) surrounded by a yellow triangle indicates that an injury hazard exists. However, it does not indicate the seriousness of potential injury. The exclamation point (!) is also used with the DANGER, WARNING, and CAUTION symbols so the potential injury is indicated.



Electrocution Hazard Symbol. This symbol indicates that an electrocution hazard exists. Serious injury or death could result from contacting high voltage.



International Electrocution Hazard. This symbol indicates that an electrocution hazard exists. Serious injury or death could result from contacting high voltage.



Mandatory Read Manual Action Symbol. (I.S.O. format) This symbol instructs personnel to read the Operators Manual before servicing or operating the equipment.



Mandatory Read Manual Action Symbol. This symbol instructs personnel to read the Operators Manual before servicing or operating the equipment.



Notice is used to notify people of important installation, operation, or maintenance information which is not hazard related.



LOCKOUT / TAGOUT PROCEDURES

Lockout/Tagout is the placement of a lock/tag on an energy isolating device in accordance with an established procedure. When taking equipment out of service to perform maintenance or repair work, always follow the lockout/tagout procedures as outlined in ANSI Z344.1 and/or OSHA Standard 1910.147. This standard "requires employers to establish a program and utilize procedures for affixing appropriate lockout devices or tagout devices to energy isolating devices and to otherwise disable machines or equipment to prevent unexpected energizing, start-up, or release of stored energy in order to prevent injury to employees."

CONTROLLED STOP

This is the stopping of machine motion by reducing the electrical command signal to 0 (zero) once the stop signal has been recognized.

HAZARD REVIEW



Electrocution Hazard

Electrocution accidents are most likely to occur during maintenance of the electrical system or when working on or near exposed high voltage wiring. This hazard does not exist when the electrical power has been disconnected, properly locked, and tagged out.



Automatic Start Hazard

This seed treating system is usually controlled by an automated system and may start without warning. Failure to properly disconnect, lockout, and tagout all energy sources of remotely controlled equipment creates a very **A WARNING** hazardous situation and could cause injury or even death. PLEASE STAY CLEAR AND BE ALERT.





YOU are responsible for the **SAFE** operation and maintenance of your USC, LLC Seed Treating System. **YOU** must ensure that you and anyone else who is going to operate, maintain, or work around the Seed Treating System be familiar with the operating and maintenance procedures and related **SAFETY** information contained in this manual. This manual will take you step-by-step through your working day and alert you to good safety practices that should be adhered to while operating the Conveyor.

Remember, **YOU** are the key to safety. Good safety practices not only protect you, but also the people around you. Make these practices a working part of your safety program. Be certain that **EVERYONE** operating this equipment is familiar with the recommended operating and maintenance procedures and follows all the safety precautions. Most accidents can be prevented. Do not risk injury or death by ignoring good safety practices.

- Series 4000 Conveyor owners must give operating instructions to operators or employees before allowing them to operate the machine, and at least annually thereafter per OSHA (Occupational Safety and Health Administration) regulation 1928.57.
- The most important safety device on this equipment is a SAFE operator. It is the
 operator's responsibility to read and understand ALL Safety and Operating
 instructions in the manual and to follow them. All accidents can be avoided.
- A person who has not read and understood all operating and safety instructions is not qualified to operate the machine. An untrained operator exposes himself and bystanders to possible serious injury or death.
- Do not modify the equipment in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the equipment.
- Think SAFETY! Work SAFELY!

GENERAL SAFETY

- 1. Read and understand the Operator's Manual and all safety signs before operating, maintaining, adjusting or unplugging the Conveyor.
- Only trained persons shall operate the seed treater. An untrained operator is not qualified to operate the machine.
- 3. Have a first-aid kit available for use should the need arise, and know how to use it.



- 4. Provide a fire extinguisher for use in case of an accident. Store in a highly visible place.
- 5. Do not allow children, spectators or bystanders within hazard area of machine.



- 6. Wear appropriate protective gear. This includes but is not limited to:
 - A hard hat
 - Protective shoes with slip resistant soles
 - Protective goggles
 - Heavy gloves
 - Hearing protection
 - Respirator or filter mask
- 7. Place all controls in neutral or off, stop motor, and wait for all moving parts to stop. Then disable power source before servicing, adjusting, repairing, or unplugging.





8. Review safety related items annually with all personnel who will be operating or maintaining the Conveyor.

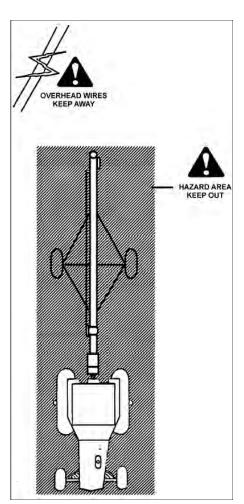
OPERATING SAFETY:

- 1. Read and understand the Operator's Manual and all safety signs before using.
- 2. Disconnect and disable electrical supply completely and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.
- 3. Clear the area of bystanders, especially children, before starting.
- 4. Be familiar with the machine hazard area. If anyone enters hazard area, shut down machine immediately. Clear the area before restarting.
- 5. Keep hands, feet, hair and clothing away from all moving and/or rotating parts.
- 6. Stay away from overhead obstructions and power lines during operation and transporting. Electrocution can occur without direct contact.
- 7. Do not operate machine when any guards are removed.
- 8. Inspect welds and repair if needed.



TRANSPORT SAFETY

- 1. Read and understand ALL the information in the Operator's Manuals regarding procedures and SAFETY when moving or transporting the Conveyor.
- 2. Check with local authorities regarding Conveyor transport on public roads. Obey all applicable laws and regulations.
- 3. Always travel at a safe speed. Use caution when making corners or meeting traffic.
- 4. Make sure the SMV (Slow Moving Vehicle) emblem and all the lights and reflectors that are required by the local highway and transport authorities are in place, are clean and can be seen clearly by all overtaking and oncoming traffic.
- 5. Do not allow riders on the Conveyor or the towing vehicle when transporting.
- 6. Attach Conveyor to towing vehicle with a pin and retainer.
- 7. Lower Conveyor to its lowest position for transporting. Keep lift point at drawbar height.
- 8. Keep to the right and yield the right-of-way to allow faster traffic to pass. Drive on the road shoulder, if permitted by law.
- 9. Do not exceed 25 m.p.h. (40 km/h). Reduce speed on rough roads and surfaces.
- 10. Stay away from overhead obstructions and power lines when transporting. Electrocution can occur without direct contact.
- 11. Always use hazard warning flashers on tractor when transporting unless prohibited by law.



TIRE SAFETY

- 1. Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death.
- 2. Do not attempt to mount a tire unless you have the proper equipment and experience to do the job.
- 3. Have a qualified tire dealer or repair service perform required tire maintenance.
- 4. When replacing worn tires, make sure they meet the original tire specifications. Never undersize.



Before placement of the Conveyor, be sure that ground is reasonably level. The Conveyor may topple or work improperly if the ground is too uneven, damaging the equipment and/or causing personal injury.

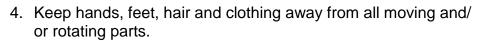


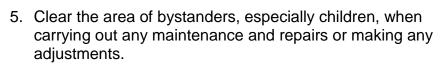
When releasing the Conveyor from the towing vehicle, test the intake end for downward weight. Do not raise the intake end above drawbar height. When the intake end is elevated too high with machine in raise position, the balance of weight quickly transfers to the discharge end,

MAINTENANCE SAFETY

- 1. Review the Operator's Manual and all safety items before working with, maintaining or operating the Conveyor.
- 2. Place all controls in neutral or off, stop motors, disable power source, and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.
- 3. Follow good shop practices:

Keep service area clean and dry. Be sure electrical outlets and tools are properly grounded. Use adequate light for the job at hand.







- 6. Before resuming work, install and secure all guards when maintenance work is completed.
- 7. Keep safety signs clean. Replace any sign that is damaged or not clearly visible.



PLACEMENT SAFETY

- 1. Move only with the appropriate equipment
- 2. Stay away from overhead power lines when moving the Conveyor. Electrocution can occur without direct contact.
- 3. Be familiar with machine hazard area. If anyone enters hazard areas, shut down machine immediately. Clear the area before restarting.
- 4. Operate the Conveyor on level ground free of debris. Anchor the Conveyor to prevent tipping or upending.

SAFETY SIGNS

- 1. Keep safety signs clean and legible at all times.
- 2. Replace safety signs that are missing or have become illegible.
- 3. Replaced parts that displayed a safety sign should also display the current sign.
- 4. Safety signs are available from your Authorized Dealer.

How to Install Safety Signs:

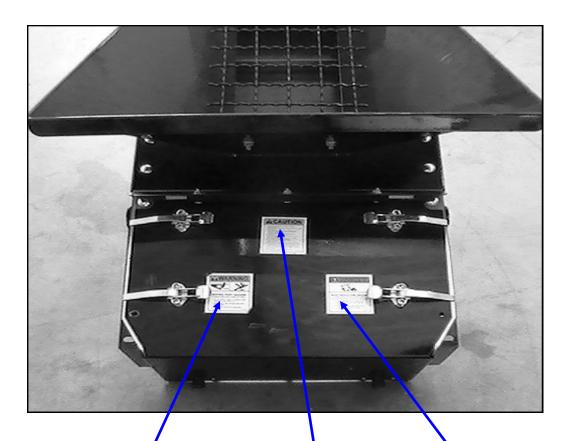
- Be sure that the installation area is clean and dry.
- Be sure temperature is above 50°F (10°C).
- Decide on the exact position before you remove the backing paper.
- Remove the smallest portion of the split backing paper.
- Align the sign over the specified area and carefully press the small portion with the exposed sticky backing in place.
- Slowly peel back the remaining paper and carefully smooth the remaining portion of the sign in place.
- Small air pockets can be pierced with a pin and smoothed out using the piece of sign backing paper.



Located on the USC equipment you will find safety labels. Always be sure to read and follow all directions on the labels.









MOVING PART HAZARD

To prevent serious injury or death from falling:

- 1. Do not stand or climb on machine when operating. Keep others off.
- 2. Keep hands feet and hair away from moving parts.
- Weer tight clothing and safety gear.

- operating. Keep all sufety shields and devices in place and in good working order.

 3. Make certain everyone is clear before operating or
- moving the machine. Keep children, visitors and untrained people every. Keep hands, feet, hair and clothing eway from mov-
- ing parts.
 Shut off and disable power source before adjusting, expeir or cleaning.
 Disconnect power before resetting motor overload.

- Disconnect power before resetting motor overload.
 Be eure electric motors are grounded.
 Support discharge and or anchor intake end to prevent upending.
 Empty Conveyor before moving to prevent upending.
 Lower Conveyor to its fully down position before moving or transporting. Use a tractor to move and transport.
 Lower Commerce well before level of prevent large be-
- Lower Conveyor well below level of power lines be-fore moving or transporting. Electrocution can occur without direct contect.
- without direct contact.

 12. Keep navey from Inhake. Keep others aw
 13. Train operators annually.





ELECTROCUTION HAZARD KEEP AWAY FROM POWER LINES

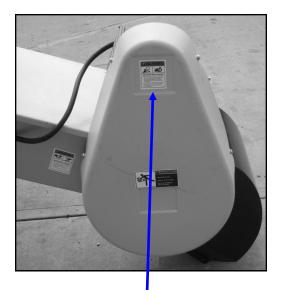
To prevent serious injury or death from electrocution:

- 1. Stay well away from power lines. Electroculion can occur without direct contact.
- 2. Lower Conveyor well below level of power line before moving or transporting.

SERIES 4000 BIN FILL CONVEYOR





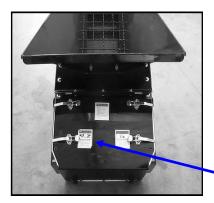


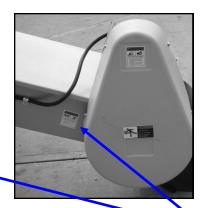


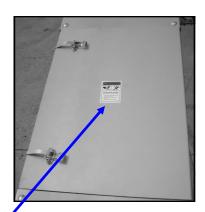
Think SAFETY! Work SAFELY!

REMEMBER—If Safety Signs have been damaged, removed, become illegible, or parts replaced without safety signs, new signs must be applied. New safety signs are available from your Authorized Dealer.

SERIES 4000 BIN FILL CONVEYOR







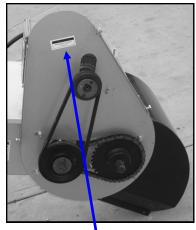
REMEMBER—If Safety Signs have been damaged, removed, become illegible, or parts replaced without safety signs, new signs must be applied. New safety signs are available from your Authorized Dealer.







Safety decal location (location may vary depending on motor model)









SECTION B

INSTALLATION



HIGH VOLTAGE ~ Always disconnect the power source before working on or near the control panel or lead wires.



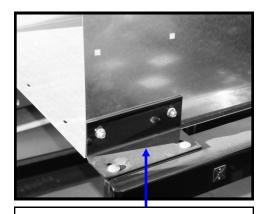
HIGH VOLTAGE ~ Use insulated tools when making adjustments while the controls are under power.



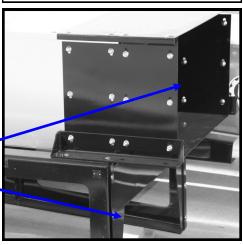
Permanent installation may require additional electrical cords since each installation is unique.

ASSEMBLING CONVEYOR

- Remove the shipping bracket that is located at the seam end of the discharge section. (Top & C)
- Place both sections of the conveyor frame end to end. Then using the included bolts and brackets attach the two ends at the seam and on the support. (Bottom & B)
- Remove the conveyor covers and troughs. Lay the belt inside of the conveyor with the lifts facing the bottom of the conveyor.
- 4. Place the troughs back in place and run the belt around the rollers. Then attach the belt with the belt splice.
- 5. Reattach the conveyor covers.



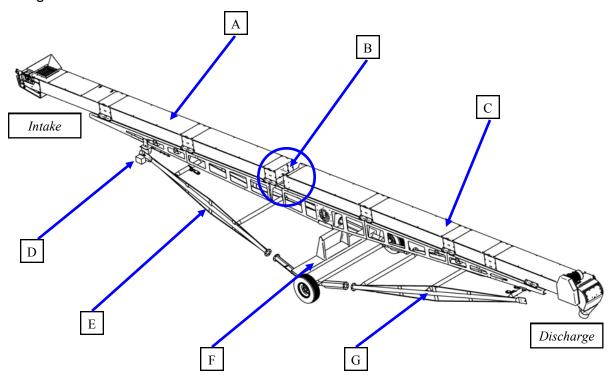
Remove this shipping bracket



Attach the conveyor sections here.

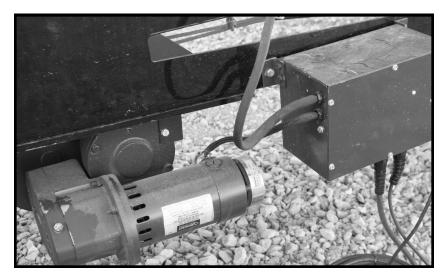
INSTALLING UNDER-CARRIAGE

- 1. Using the provided bolts, attach the upper A-frame assembly (G) to the axle assembly (F). The upper A-frame assembly has two pulleys and will connect to the axle assembly on the end nearest the tires.
- 2. Attach the lower A-frame assembly (E) to the axle assembly (F). The lower A-frame assembly has one pulley and will connect to the axle assembly on the end nearest the conveyor support bar.
- 3. Lay the entire undercarriage assembly flat on the ground with the conveyor support facing up.
- 4. Using two forklifts, pick up the conveyor and bring over the top of the undercarriage. Ensure that the discharge end (C) of the conveyor is located above the upper A-frame assembly (G).
- 5. Connect the lower A-frame assembly (E) to the bottom of the intake end (A) of the conveyor using the two provided 1" x 1.5" bolts and nuts.
- 6. Attach the upper A-frame assembly (G) to the slide plate on the bottom of the discharge end of the conveyor (C) via the included slide pin, cotter pin and washer. The conveyor may need to be raised for this to be accomplished.
- 7. Lower the conveyor down so the intake end (A) of the conveyor is sitting on the ground.



INSTALLING UNDER-CARRIAGE

8. Install the electronic winch to the bracket. (Below & D)



Picture of the winch after installation.

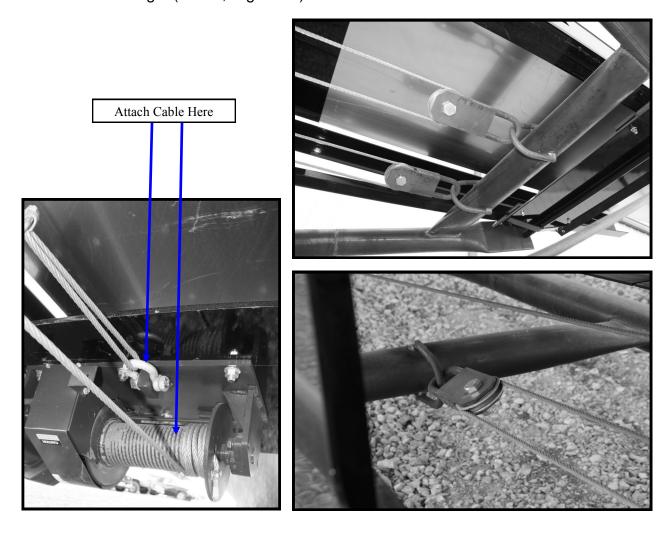
9. Install the limit switch in the pre-drilled holes that are located on the conveyor supports slightly above the conveyor half way point (C). Wire the switch to the winch. (Below & D)



Picture of the limit switch after installation.

INSTALLING UNDER-CARRIAGE

- 10. Attach the cable to the winch (D). Maintain at least 4 wraps around the winch.
- 11. String the cable through the pulleys and attach to the lower portion of the under-carriage. (Below, Right & D)

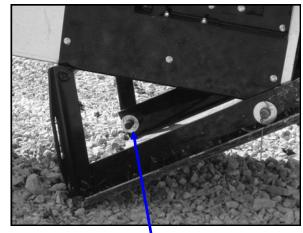


12. Have a certified electrician provide power to the conveyor. Provide convenient shutdown switches and comply with local electrical codes.

SET-UP

The following steps outline the initial set-up of your USC Series 4000 Conveyor:

- 1. Clear the area of bystanders, especially small children, before starting.
- 2. Be sure there is enough clearance from overhead obstructions and power lines or other equipment to move the machine into its working position.
- 3. Attach the Conveyor to an appropriate towing vehicle.
- 4. Move conveyor as near as possible to desired position.
- 5. Set the park brake on the towing vehicle before dismounting.
- 6. Unhook the unit from the towing vehicle.
- 7. Remove the front hitch pin and put the two hitch locks in place between the hitch plate and the conveyor hitch pin holes (right). This will allow the conveyor's hitch to remain accessible while lowering the height of the seed intake hopper.
- 8. Use the winch to raise the machine so it clears the truck, trailer or wagon.
- 9. Place chocks in the front and rear of each wheel.
- 10. It will be necessary to stake or weight the intake end to prevent upending when the machine is emptying.



Ensure the washer and cotter pin are installed on both sides of the conveyor.

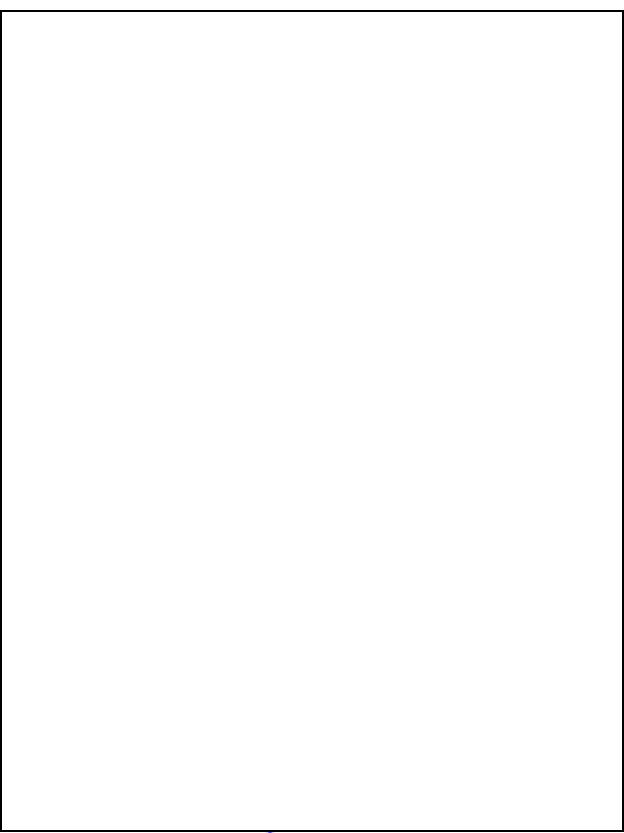
- 11. Review the Workplace Safety Diagram for your model prior to starting work. Follow all setup instructions and do not allow any unauthorized people into the working area.
- 11. Have a certified electrician provide power to the conveyor. Provide convenient shutdown switches and comply with local electrical codes.



Ensure that the seed treater panel and the conveyor are rated for the same power before plugging the conveyor into the seed treater panel.

12. Reverse the above procedure when removing the machine from its working position.

NOTES



SECTION C

MECHANICAL OPERATION



OPERATING SAFETY

- Read and understand the Operator's Manual and all safety signs before using.
- Electric motor drives: Disconnect and disable electrical supply completely and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.
- Clear the area of bystanders, especially children, before starting.
- Be familiar with machine hazard area. If anyone enters hazard areas, shut down machine immediately. Clear the area before restarting.
- Keep hands, feet, hair and clothing away from all moving and/or rotating parts.
- Do not allow riders on the Conveyor or transport vehicle when transporting.

- Stay away from overhead obstructions and power lines during operation and transporting. Electrocution can occur without direct contact.
- Do not operate machine when any guards are removed.
- Lower Conveyor to its lowest position before moving or transporting or when not in use.
- Inspect lift cable before using Conveyor. Replace if frayed or damaged.
- Make certain lift cable is properly seated in cable pulleys.
- Be sure that conveyor is empty before raising or lowering.

The USC, LLC Series 4000 Bin Fill Conveyor is designed to efficiently move seed between a truck, trailer or wagon to a seed bin. Power is provided by an electric motor. Be familiar with the machine before starting.

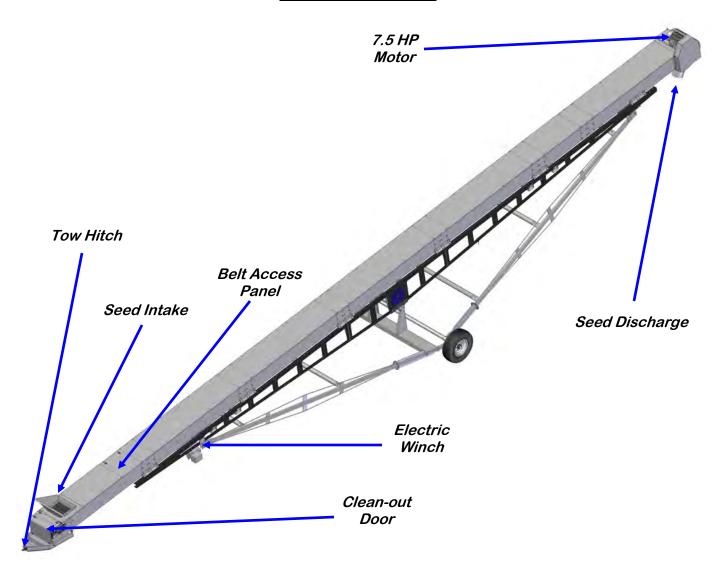
It is the responsibility of the owner or operator to read this manual and to train all other operators before they start working with the machine. In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, and prudence of personnel involved in the operation, transport, maintenance and storage of equipment or in the use and maintenance of facilities.



Follow all safety instructions exactly. Safety is everyone's business. By following recommended procedures, a safe working environment is provided for the operator, bystanders and the area around the worksite. Untrained operators are not qualified to operate the machine.

Many features incorporated into this machine are the result of suggestions made by customers like you. Read this manual carefully to learn how to operate the machine safely and how to set it to provide maximum efficiency. By following the operating instructions in conjunction with a good maintenance program, your conveyor will provide many years of trouble-free service.

SYSTEM OVERVIEW



CONTROLS

- <u>Electric Drive:</u> Have a licensed electrician provide power to the machine per the National Electrical Code ANSI/NFPA 70 and local codes. Install an ON, OFF switch for the convenience of the operator.
- **Electric Winch:** A winch is located on the transport frame and is used to raise and lower the conveyor. Use the provided controls to raise or lower the discharge end of the conveyor.



Maintain at least 4 wraps of cable on the drum at the maximum reach. The drum cable clamp is not designed to hold load.



PRE-OPERATION CHECKLIST

Efficient and safe operation of the USC, LLC Series 4000 Bin Fill Conveyor requires that each operator reads and understands the operating procedures and all related safety precautions outlined in this section. A pre-operation checklist is provided for the operator. It is important for both the personal safety and maintaining the good mechanical condition of the Conveyor that this checklist is followed.

Before operating the Conveyor and each time thereafter, the following areas should be checked off:

- 1. Service the machine per the schedule outlined in Section F, Maintenance (pg 32).
- 2. Use only an electric motor of adequate power to operate the machine.
- 3. Check that all guards are installed, secured and functioning as intended. Do not operate with missing or damaged shields.
- 4. Check worksite. Clean up working area to prevent slipping or tripping.
- Check winch and cable for security and operation. There should be at least four complete wraps of cable around winch drum in full down position. Cable anchor on winch drum must be tight. Inspect cable for fraying or damage and replace if damaged or frayed.
- 6. Check that cable clamps are secure.
- 7. Check that drive belt and conveying belt are not frayed or damaged and that they are properly adjusted and aligned.
- 8. Be sure Conveyor wheels are chocked.
- 9. Check that discharge and intake areas are free of obstructions.



Anchoring and/or support of Conveyor during operation is necessary. When the lower half of Conveyor empties of material, the weight balance transfers to the upper end of the machine, which can cause upending.

OPERATING

When using the Conveyor, follow this procedure:

- 1. Clear the area of bystanders, especially small children, before starting.
- 2. Review the Pre-Operation Checklist (page 24) before starting.
- 3. Review the Workplace Hazards schematic and use extra care when inside the hazard area. Keep all bystanders out of this area. Should anyone enter this area, stop the machine immediately.
- 4. Set the conveyor in position. To achieve rated capacity, the conveyor should be run **no steeper than 30°.** Molded flights on the belt minimize material rollback during operation.
- 5. Drive or back the truck or wagon into position for loading.
- 6. Turn the electric motor ON and begin the flow of material and unload.
- 7. To stop the conveyor; stop the flow of material and run until the belt is empty. Turn off motor and lock out power source.

Operating hints

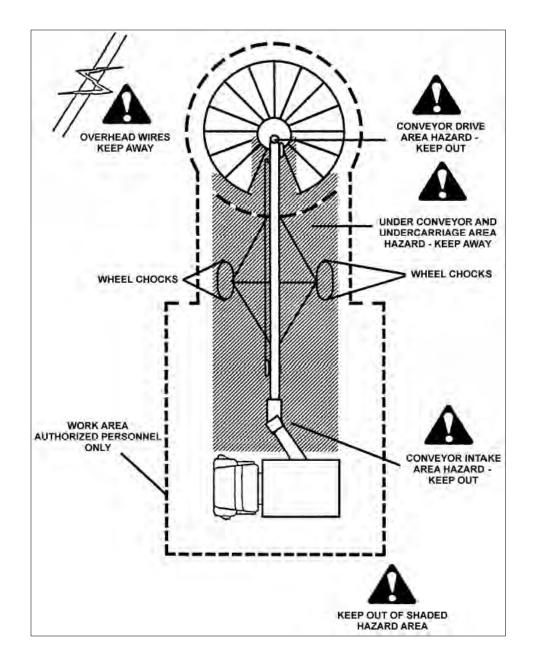
- Direct the flow of material into the input hopper when moving material. Do not "flood feed" the inlet hopper.
- Always listen for any unusual sounds or noises. If any are heard, stop the machine and determine the source. Correct the problem before resuming work.
- Never allow anyone into the workplace hazard area. If anyone enters, stop immediately. Make them LEAVE before resuming work.
- Do not run the machine for long periods of time with no material on the belt. It increases the wear. Try to run the conveyor only when moving material.
- Do not support the discharge end directly on the truck box, trailer or wagon. Stake the intake (hopper) or weight it down to prevent upending.
- Use a Truck Unoad Conveyor or similar conveyor to move grain from under the bin discharge into the Series 4000 conveyor hopper when emptying low clearance facilities.

Emergency Stopping

Although it is recommended that the machine be emptied before stopping, in an emergency situation, stop or shutdown the power source immediately. Correct the emergency before resuming work.

Restarting

When the machine is shut down inadvertently or for an emergency, the belt may still be covered with material. It may be necessary to tighten the drive belt slightly to handle the heavier-than-normal starting loads.



MACHINE BREAK-IN

Although there are no operational restrictions on the Conveyor when used for the first time, it is recommended that the following mechanical items be checked:

Before starting

- 1. Read the Conveyor Operator's Manual.
- 2. During the conveyors first few minutes of operation, check conveyor belt alignment to ensure belt is tracking correctly when running empty and also during loaded conditions.

After operating or transport for 1/2 hour

- 1. Re-torque all the wheel bolts.
- 2. Re-torque fasteners and hardware.
- 3. Check that all safety decals are installed and legible. Apply new decals if required.
- 4. Check the drive belt tension and alignment. Tension or align as required.
- 5. Check the conveying belt tension and alignment. Tension or align as required.
- 6. Check that all guards are installed and working as intended.

After operating for 5 hours and 10 hours

- 1. Re-torque all wheel bolts, fasteners and hardware.
- 2. Check that all guards are installed, secured and functioning as intended. Do not operate with missing or damaged shields.
- 3. Check safety decals. Install new ones if required.
- 4. Check the drive belt, and conveying belt tension and alignment. Tension or align as required.
- 5. Then go to the normal servicing and maintenance schedule as defined in the Maintenance Section.

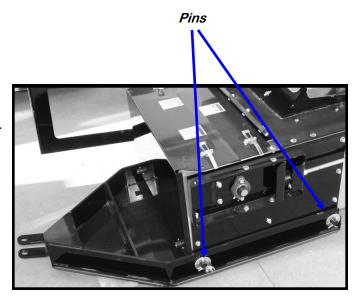
SECTION D

TRANSPORTING

ATTACHING / UNHOOKING

It is recommended that the Conveyor be attached to an appropriate towing vehicle whenever it is moved. Follow this procedure when attaching to or unhooking from a towing vehicle:

- Slide hitch over take-up and align holes.
- 2. Install pins through hitch and take-up and install bridge pins.
- 3. Make sure that bystanders, especially small children, are clear of the working area.
- 4. Be sure the conveyor wheels are chocked.
- 5. Be sure that there is sufficient room and clearance to back up to the machine.
- 6. Align the drawbar of the towing vehicle with the hitch of the Conveyor while backing up.



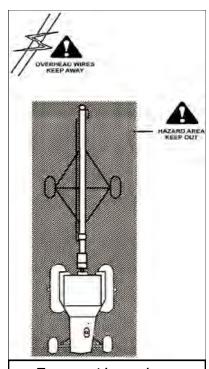
Conveyor Hitch

- 7. Set the park brake before dismounting.
- 8. Align the hitch to the drawbar and install a hitch pin with a retainer (not supplied).
- 9. Remove chocks from machine wheels.
- 10. Move to new location.
- 11. Reverse the above procedure when unhooking.

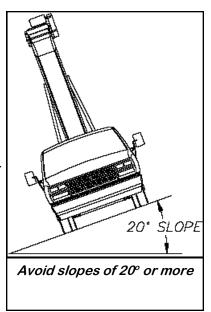
TRANSPORTING

USC, LLC Series 4000 Conveyors are designed to be easily and conveniently moved from place to place. When transporting, follow this procedure:

- 1. Review the Transport Safety Schematic before starting.
- 2. Be sure all bystanders are clear of the machine.
- 3. On electric motor drive units, unplug the power cord, wrap around frame, and secure to prevent dragging.
- 4. Attach to a towing vehicle using a hitch pin with a retainer.
- 5. Remove chocks from the wheels.
- 6. Lower the conveyor into its fully down position so that it is sitting on the rest plate on the axle assembly.
- 7. Electrocution can occur without direct contact.
- 8. Never go across slopes of more than 20°. It is better to go straight up or straight down a slope.
- Make sure the SMV (Slow Moving Vehicle) emblem and all the lights and reflectors that are required by the local highway and transport authorities are in place, are clean, and can be seen clearly by all overtaking and oncoming traffic.
- 10. Keep to the right and yield the right-of-way to allow faster traffic to pass. Drive on the road shoulder, if permitted by law.
- 11. It is not recommended that the machine be transported faster than 25 mph (40 km/h).
- 12. Do not allow riders on the machine or towing vehicle.
- 13. During periods of limited visibility, use pilot vehicles or add extra lights to the machine.
- 14. Always use hazard flashers on the vehicle when transporting unless prohibited by law.



Transport hazard area





TROUBLESHOOTING

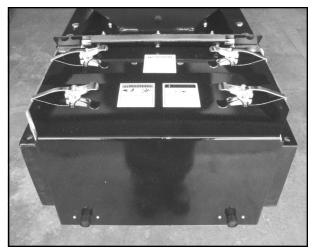
Below is a table describing the most frequent problems and solutions with the USC Series 4000 Conveyor. For further assistance, contact your local USC dealer.

Problem	Possible Cause	Solution
Conveyor will not run.	 Not turned on. Conveying belt loose. Drive belt loose. 	 Start power source or turn on power. Tighten and align belt. Tighten drive belt.
Belt edge fraying.	1. Belt not aligned.	Align and tension belt.
Low conveying capacity.	 Angle too steep. Slow operating speed. Conveyor belt slipping. Drive belt slipping. 	 Reposition with angle at 30°. Increase operating speed. Tighten belt. Set drive belt tension.

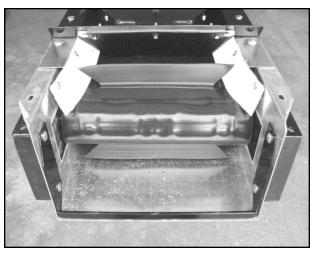
Unplugging

In unusual moisture or material conditions, the machine can plug. When unplugging, follow this procedure:

- 1. Place all controls in neutral or off, stop motor, disable and lock out power source before unplugging.
- 2. Unbolt and remove the necessary conveyor covers.
- 3. Unlatch and open the hinged tail cover.
- 4. Remove plugged material.
- 5. Install and secure conveyor covers, close and re-latch hinged tail cover.



Bottom clean-out door



Bottom clean-out door removed

SECTION MAINTENANCE

Proper maintenance of the USC Series 4000 Conveyor is critical for peak performance, reliability and accuracy of this system. The following is a guideline for the type of maintenance and servicing that should be performed on this unit. Your environment and uses may require additional maintenance and service beyond this list to assure a reliable and safe unit. The operator of this unit has ultimate responsibility to identify areas of concern and rectify them before they become a hazard or safety issue. There is no substitute for a trained, alert operator.



Do not put this unit into operation with any questionably maintained parts. Poor performance or a hazard may occur.

FLUIDS AND LUBRICANTS

Grease

Use an SAE multipurpose high temperature grease with extreme pressure (EP) performance. Also acceptable is an SAE multipurpose lithium-based grease.

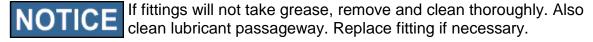
Storing Lubricants

Your machine can operate at top efficiency only if clean lubricants are used. Use clean containers to handle all lubricants. Store them in an area protected from dust, moisture and other contaminants.

GREASING

Use a Maintenance Checklist to keep record of all scheduled maintenance.

- 1. Use a hand-held grease gun for all greasing.
- 2. Wipe grease fitting with a clean cloth before greasing to avoid injecting dirt and grit.
- 3. Replace and repair broken fittings immediately.





SERVICING INTERVALS

Every 40 hours or Weekly

- 1. Check the conveyor belt tension and alignment.
- 2. Grease conveyor bearings.
 - Two bolt flanged bearings, tail roller bearings right and left (2 locations).
 - Two bolt flanged bearings, drive roller bearings right and left (2 locations).
 - Two bolt flanged bearings, jackshaft bearings right and left (2 locations).
- 3. Check the drive belt tension and alignment. The belts will deflect approximately 1/4 to 1/2 inch when properly tensioned. (right)
- 4. Remove yellow guard and check chain tension





Every 200 hours or Annually

- 1. Repack wheel bearings.
- 2. Wash machine.
- 3. Check pulley bushing for wear (right). To inspect pulley:
 - Lower the conveyor to its lowest position.
 - When the conveyor has reached the lowest position, it will stop at the pins.
 - Unwind the winch two more turns, or until enough slack in the cable is achieved.
 - Loosen and remove the bolt.
 - Inspect the bushing on the pulley for wear.
 - Reverse steps 1-4 for re-assembly.



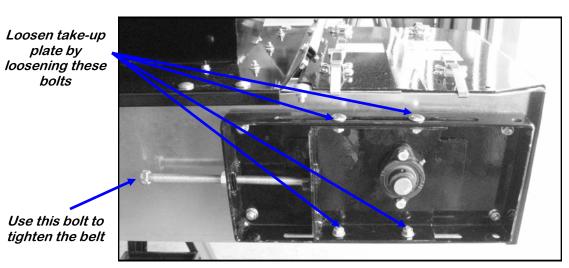
CONVEYING BELT TENSION AND ALIGNMENT

A contoured belt with molded flights is used to convey material along the frame. The tension and alignment of the belt should be checked weekly, or more often if required, to be sure that it does not slip or run to one side. A properly tensioned belt will not slip when it is operating. Operating the belt with less slippage will increase the belt life and causes less stress on bearings, pulleys and shafts.

To maintain the belt, follow this procedure:

NOTICE Place all controls in neutral or off, stop motor and disable power source before working on belt.

- 1. Use the take-up bolts located at the tail to set the tension of the belting.
- 2. If the belt needs to be tightened to prevent slippage, use the take-up adjustments on the tail end only.
- 3. The belt is tightened by turning both take-up adjustments an **equal** number of turns.
- 4. Use the drive roller to check the alignment. The belt should be centered.
- 5. Turn the belt 1/2 revolution when the belt is new and check the drive and tail roller. If out of alignment, the belt will move to the loose side. Loosen the bearing mounting bolts and use the bearing position bolts to set the position. Tighten mounting bolts.
- 6. Run and check again. Check frequently during the first few minutes of operation and then several times during the first 10 hours. The belt normally seats itself during the first 10 hours of operation and can be checked weekly after that.
- 7. The belt is properly aligned when the belt runs in the center of the head and tail rollers.



CONVEYING BELT ALIGNMENT

- A misaligned belt will track toward the loose side. Set the tracking by loosening the bearing mounts on the tight side and using the bearing position bolt to move the end of the head roller toward the tail. Tighten the bearing mount when the belt is centered on the head roller.
- Run the belt and check the tracking again. Loosen the tight side slightly again if required. Repeat the adjusting and checking procedure until the belt centers on the input end roller and remains centered when running.
- 3. Always repeat this aligning procedure when installing a new belt. Check frequently during the first 10 hours of operation. After 10 hours, the belt is normally seated and checking the alignment can be done less frequently.



Loosen bearings



Adjusting tracking

BELT REPLACEMENT

- 1. Rotate the belt until the seam is visible.
- 2. Move the tail roller to its loosest position.
- 3. Pull all the slack to the seam area.
- 4. Remove the wire connector and open the belt.
- 5. Attach one end of the replacement belt to the belt end being removed.
- 6. Pull the old belt out and the new belt will be threaded into place.
- 7. Disconnect the old belt.
- 8. Connect the ends of the new belt together and secure.
- 9. Set the belt tension.
- 10. Check and set the belt alignment



Belt Seam



Check alignment



DRIVE BELT TENSION & ALIGNMENT

Power to the conveying belt is transmitted through a V-belt. The V-belt drive system must be maintained at the proper belt tension and pulley alignment to obtain the desired performance and life. When maintaining the belt drive system for the electric drive model, follow this procedure:



Turn motor off and unplug power cord or turn off power and lock out the master panel before starting maintenance on drive belt system.

Drive Belt Tension

- 1. Push on the center of the belt span with a force of approximately 5 to 10 lbs.
- 2. The belts will deflect approximately 1/4 to 1/2 inch when properly tensioned.
- 3. Move the motor up, using the adjustment bolts, to set drive belt tension (right).
- 4. Close and secure guards.



Motor base adjustment

Drive Belt Alignment

- 1. Lay a straightedge across the pulley faces to check the alignment (right).
- 2. Use the pulley hub or the motor mounting plate slots to move the pulley to the required position for alignment.
- 3. Tighten hub bolts to secure pulley on shaft.
- 4. Check belt tension
- 5. Close and secure guards.



Lay a straightedge across pulley faces

Drive Belt Replacement

- 1. Lower motor to its loosest position.
- 2. Remove old belt and replace with a new one.
- 3. Raise motor to set the belt tension.
- 4. Check pulley alignment. Adjust if required.
- 5. Close and secure guards.

STORAGE

SECTION G

When storing the USC Series 4000 Conveyor for long periods of time, the following procedure must be followed to reduce the chance of rust, corrosion and fatigue of the conveyor. You can also use these steps when storing the machine for the winter.



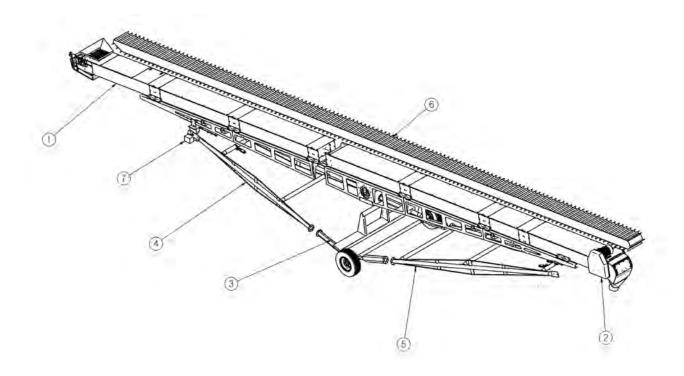
A dust mask and protective rubber gloves shall be used when cleaning the machine.

- 1. Clear the area of bystanders, especially small children.
- 2. Thoroughly wash the entire machine to remove all dirt, mud, debris or residue.
- 3. Inspect all moving or rotating parts to see if anything has become entangled in them. Remove the entangled material.
- 4. Lubricate all grease fittings. Make sure that all grease cavities have been filled with grease to remove any water residue from the washing. This also protects the bearing seals.
- 5. Touch up all paint nicks and scratches to prevent rusting.
- 6. Move to storage area.
- 7. Select an area that is dry, level and free of debris.
- 8. Unhook from towing vehicle.
- 9. Place blocks under the intake or the jack if required.
- 10. If the machine cannot be placed inside, cover the electric motor with a water proof tarpaulin and tie securely in place.
- 11. Store machine in an area away from human activity.
- 12. Do not allow children to play on or around the stored machine.

MECHANICAL DRAWINGS

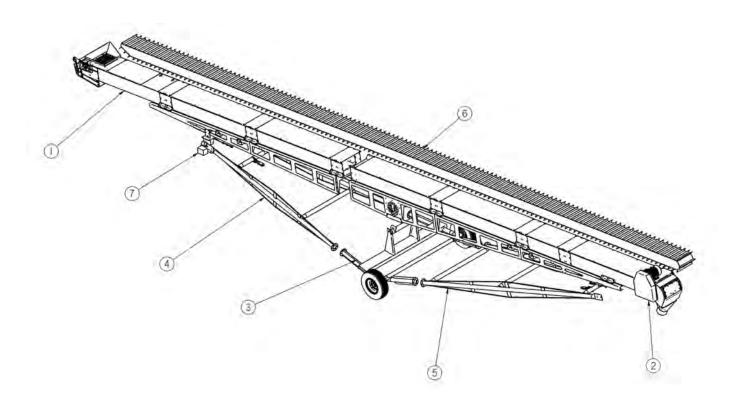
The following pages show the parts for series 4000 bin fill conveyors. Please have the part number ready when ordering parts.

SERIES 4000 BIN FILL CONVEYOR & PARTS LIST (17-14-0001) 65' SINGLE PHASE



Item#	<u>Part #</u>	<u>Rev</u>	<u>Title</u>	Qty
1	05-07-0378	Α	ASSY CNVR 24IN INLET SECT 30FT	1
2	05-07-0382	Α	ASSY CNVR 24IN OUTLET SECT 35FT 1PH	1
3	05-08-0109	Α	ASSY AXLE SECT 24BW BIN LD CNVR	1
4	05-08-0111	Α	ASSY LOWER A FR 24BW BIN LD CNVR	1
5	05-08-0112	Α	ASSY UPPER A FR 24BW BIN LD CNVR	1
6	11-02-0080	Α	BELT CNVR CLTS 6524	1
7	13-05-0199		KIT INSTALL 24BW BIN LD CNVR	1

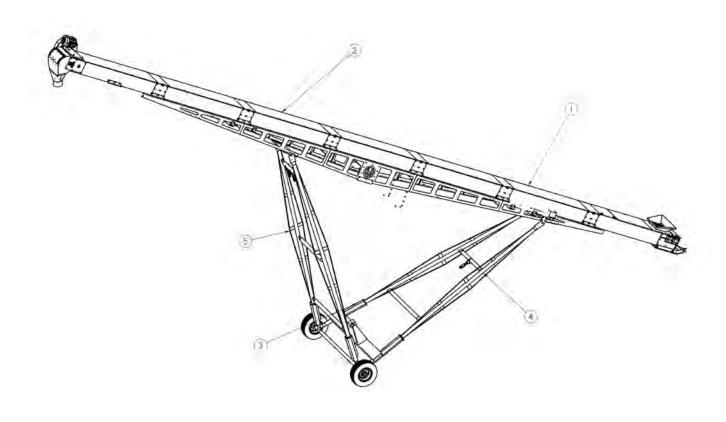
SERIES 4000 BIN FILL CONVEYOR & PARTS LIST (17-14-0001) 65' THREE PHASE



Item#	<u> Part #</u>	<u>Rev</u>	<u>Title</u>	Qty
1	05-07-0378	Α	ASSY CNVR 24IN INLET SECT 30FT	1
2	05-07-0380	Α	ASSY CNVR 24IN OUTLET SECT 35FT 3PH	1
3	05-08-0109	Α	ASSY AXLE SECT 24BW BIN LD CNVR	1
4	05-08-0111	Α	ASSY LOWER A FR 24BW BIN LD CNVR	1
5	05-08-0112	Α	ASSY UPPER A FR 24BW BIN LD CNVR	1
6	11-02-0080	Α	BELT CNVR CLTS 6524	1
7	13-05-0199		KIT INSTALL 24BW BIN LD CNVR	1

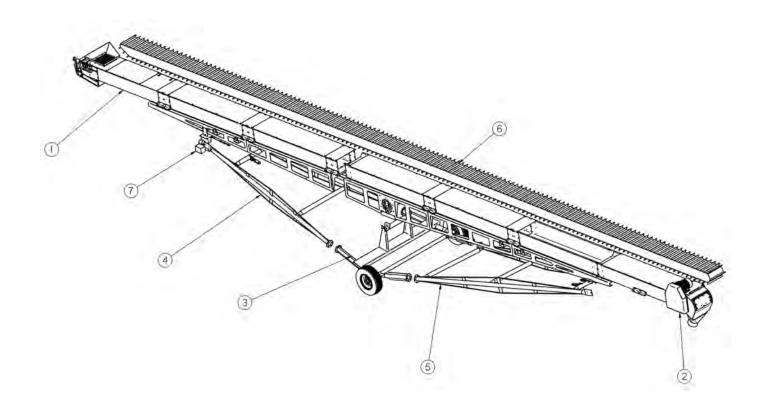


SERIES 4000 BIN FILL CONVEYOR & PARTS LIST (17-14-0001) 70' SINGLE PHASE



Item#	<u>Part #</u>	Rev	<u>Title</u>	Qty
1	05-07-0378B	В	ASSY CNVR 24IN INLET SECT 30FT	1
2	05-07-0469	Α	ASSY CNVR 24IN OUTLET SECT 40FT 1PH	1
3	05-08-0109	Α	ASSY AXLE SECT 24BW BIN LD CNVR	1
4	05-08-0111	Α	ASSY LOWER A FR 24BW BIN LD CNVR	1
5	05-08-0112	Α	ASSY UPPER A FR 24BW BIN LD CNVR	1
6*	11-02-0091	Α	BELT CNVR CLTS 7024	1
7*	13-05-0199		KIT INSTALL 24BW BIN LD CNVR	1

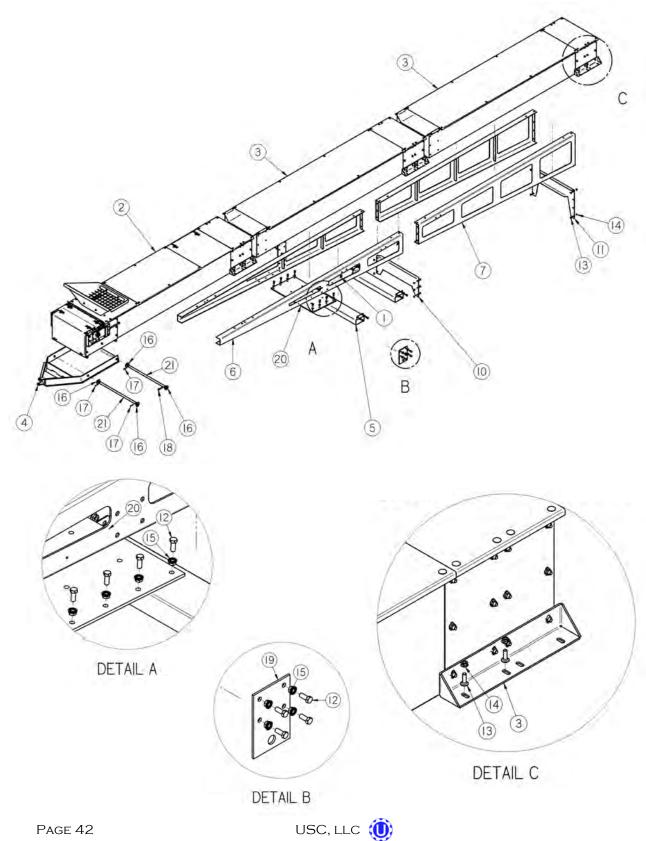
SERIES 4000 BIN FILL CONVEYOR & PARTS LIST (17-14-0001) 70' THREE PHASE



Item#	<u> Part #</u>	Rev	<u>Title</u>	Qty
1	05-07-0378	Α	ASSY CNVR 24IN INLET SECT 30FT	1
2	05-07-0470	Α	ASSY CNVR 24IN OUTLET SECT 40FT 3PH	1
3	05-08-0109	Α	ASSY AXLE SECT 24BW BIN LD CNVR	1
4	05-08-0111	Α	ASSY LOWER A FR 24BW BIN LD CNVR	1
5	05-08-0112	Α	ASSY UPPER A FR 24BW BIN LD CNVR	1
6	11-02-0091	Α	BELT CNVR CLTS 7024	1
7	13-05-0199		KIT INSTALL 24BW BIN LD CNVR	1



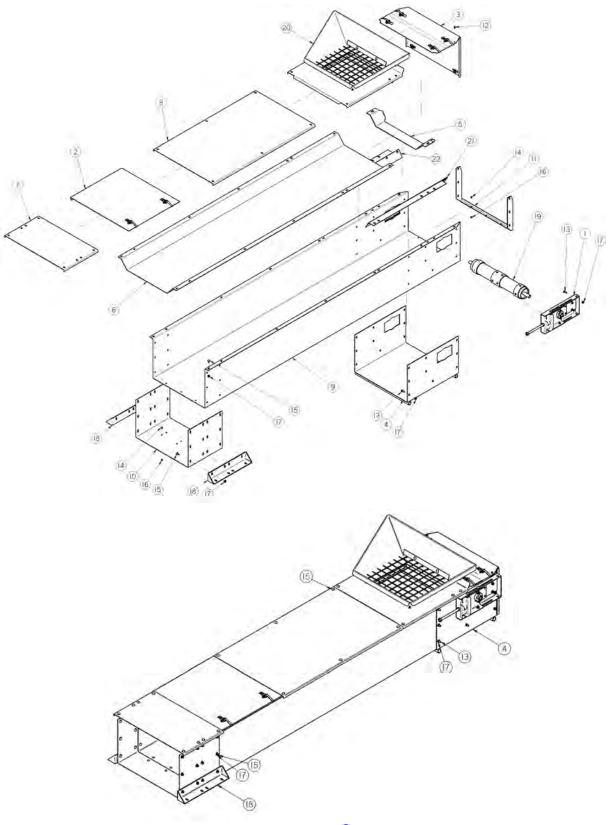
SERIES 4000 BIN FILL CONVEYOR INLET SECTION



SERIES 4000 BIN FILL CONVEYOR INLET SECTION PARTS LIST

<u>ltem #</u>	Part #	<u>Rev</u>	<u>Title</u>	Qty
1	03-09-0004	Α	CBL TIE PAD .180	13
2	05-07-0346	Α	ASSY CNVR 24IN TAIL SECT	1
3	05-07-0355	Α	ASSY CNVR 24IN 10FT MID SECT	2
4	05-07-0376	Α	WDMT HITCH 24BW BIN LD	1
5	05-07-0381	Α	WDMT FORKLIFT POCKET 24BW BIN LD	2
6	05-07-0552	Α	WDMT SUPP END 1-1 24BW BIN LD	1
7	05-07-0553	Α	WDMT SUPP END 1-2 24BW BIN LD	1
8*	05-07-0554	Α	WDMT SUPP END 2-1 24BW BIN LD	1
9*	05-07-0555	Α	WDMT SUPP END 2-2 24BW BIN LD	1
10	5/10/3776	Α	BRKT SUPP FR SHORT 24BW BIN LD	1
11	5/10/3777	Α	BRKT SUPP FR TALL 24BW BIN LD	1
12	06-01-0080	Α	BOLT .500-13 X 1.25 ZP GR5	24
13	06-01-0127	Α	BOLT, CARRIAGE, .375-16 X 1 1/4 ZP G5	30
14	06-03-0014	Α	NUT LOCK FLG .375-16 ZP GR5	30
15	06-03-0015	Α	NUT LOCK FLG .500-13 ZP GR5	24
16	06-05-0010	Α	WASHER, 1.00 FLAT ZP	4
17	06-09-0023	Α	.188 X 2.00 ZP COTTER PIN	3
18	06-09-0052	Α	PIN CLIP HITCH 3.3125 OAL.148 OD ZP	1
19	101A3C	Α	PLT UNCG ATTACH	2
20	101ACE	Α	PLT WINCH MNT	1
21	101BBC	А	HITCH PIN	2

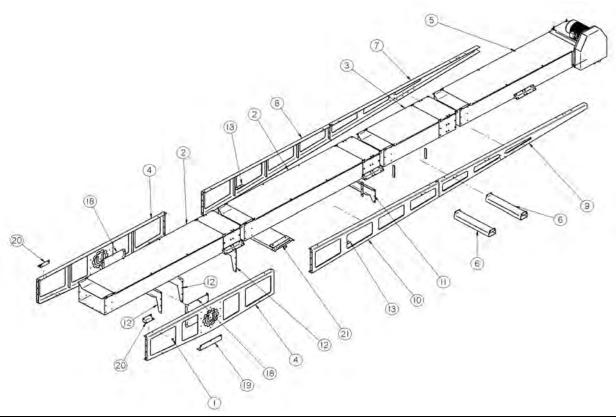
SERIES 4000 BIN FILL CONVEYOR TAIL SECTION



SERIES 4000 BIN FILL CONVEYOR TAIL SECTION PARTS LIST

Item#	Part #	<u>Rev</u>	<u>Title</u>	Qty
1	05-03-0929	Α	TAIL TAKE-UP ASSEMBLY	2
2	05-06-0050	Α	ASSY REMOVABLE CVR 24BW	1
3	05-06-0074	Α	ASSY CLEANOUT CVR S4000 BIN LD	1
4	05-07-0375	Α	WDMT HITCH MNT BRKT 24BW BIN LD	1
5	5/10/2543	Α	TROUGH TRANS PLT 24BW	1
6	5/10/2548	В	TROUGHING PAN-24BW TAIL SECTION	1
7	5/10/2552	Α	SPLICE CVR 24BW	1
8	5/10/2555	В	TOP CVR 4FT 24BW	1
9	5/10/3701	Α	FR 24BW TAIL SECT BIN LD	1
10	5/10/3702	Α	PLT FORMED SPLICE 24BW BIN LD	1
11	5/10/3729	Α	BRKT BIN LD CLEANOUT DOOR CLMP	1
12	06-01-0004	Α	BOLT .250-20 X .500 ZP GR5	2
13	06-01-0115	Α	BOLT CRG .375-16 X 1.00 ZP GR5	18
14	06-01-0150	Α	BOLT, CARRIAGE, .250-20x.50 G5 ZP	9
15	06-01-0153	Α	BOLT CRG .375-16X.750 ZP SHORT NECK	46
16	06-03-0013	Α	NUT,LOCK, FLG .250-20 ZP SERRATTED	11
17	06-03-0014	Α	NUT LOCK FLG .375-16 ZP GR5	64
18	101A30	Α	101A30	2
19	13-05-0090B	В	15.5 X 4 TAIL PULLEY WELDMENT	1
20	13-08-0019B	В	ASSY S4000 CNVR INLT HOPP	1
21	280-2-0026	С	SKIRTING ASSY LH	1
22	280-2-0027	С	SKIRTING ASSY RH	1

S4000 BIN FILL CONVEYOR OUTLET SECTION & PARTS LIST 35' SINGLE PHASE

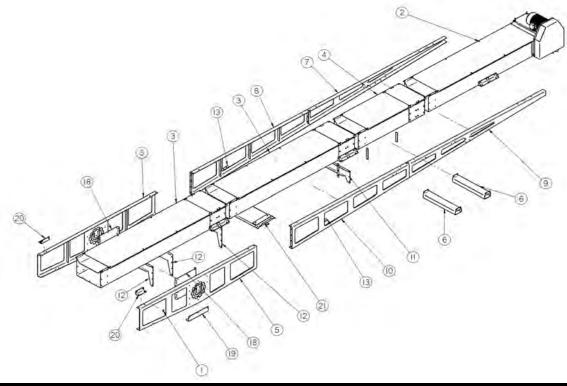


<u>ltem #</u>	Part #	Rev	<u>Title</u>	Qty
1	03-09-0004	Α	CBL TIE PAD .180	13
2	05-07-0355	Α	ASSY CNVR 24IN 10FT MID SECT	2
3	05-07-0356	Α	ASSY CNVR 24IN 5FT MID SECT	1
4	05-07-0362B	В	WDMT SUPP MID 6524	2
5	05-07-0372	Α	ASSY CNVR BIN LD HEAD SECT 7.5HP 1P	1
6	05-07-0381	Α	WDMT FORKLIFT POCKET 24BW BIN LD	2
7	05-07-0552	Α	WDMT SUPP END 1-1 24BW BIN LD	1
8	05-07-0553	Α	WDMT SUPP END 1-2 24BW BIN LD	1
9	05-07-0554	Α	WDMT SUPP END 2-1 24BW BIN LD	1
10	05-07-0555	Α	WDMT SUPP END 2-2 24BW BIN LD	1
11	5/10/3776	Α	BRKT SUPP FR SHORT 24BW BIN LD	1
12	5/10/3777	Α	BRKT SUPP FR TALL 24BW BIN LD	3
13	5/10/3780	Α	PLT UNCG STOP 24BW BIN LD	2
14	06-01-0080	Α	BOLT .500-13 X 1.25 ZP GR5	12
15	06-01-0127	Α	BOLT, CARRIAGE, .375-16 X 1 1/4 ZP G5	84
16	06-03-0014	Α	NUT LOCK FLG .375-16 ZP GR5	84
17	06-03-0015	Α	NUT LOCK FLG .500-13 ZP GR5	12
18	101A36	Α	PLT UNCG BACKING MID SUPP	2
19	101AA4	Α	BRKT SUPP	2
20	101BBE	Α	SHIPPING BRACKET	2
21	13-05-0196	Α	TRANSPORT SLIDE ASSEMBLY	1

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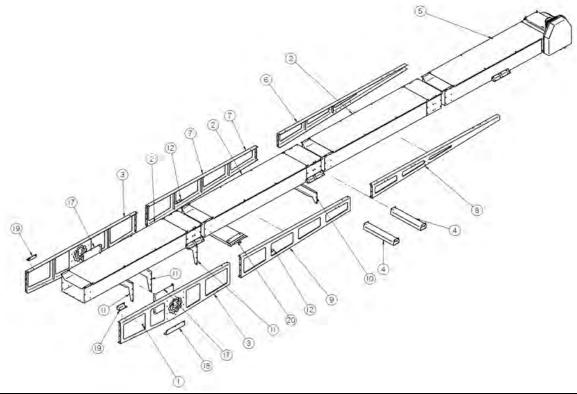
USC, LLC 🌘

S4000 BIN FILL CONVEYOR OUTLET SECTION & PARTS LIST 35' THREE PHASE



<u>ltem#</u>	Part #	Rev	<u>Title</u>	<u>Qty</u>
1	03-09-0004	Α	CBL TIE PAD .180	13
2	05-07-0348	Α	ASSY CNVR 24IN HEAD SECT	1
3	05-07-0355	Α	ASSY CNVR 24IN 10FT MID SECT	2
4	05-07-0356	Α	ASSY CNVR 24IN 5FT MID SECT	1
5	05-07-0362B	В	WDMT SUPP MID 6524	2
6	05-07-0381	Α	WDMT FORKLIFT POCKET 24BW BIN LD	2
7	05-07-0552	Α	WDMT SUPP END 1-1 24BW BIN LD	1
8	05-07-0553	Α	WDMT SUPP END 1-2 24BW BIN LD	1
9	05-07-0554	Α	WDMT SUPP END 2-1 24BW BIN LD	1
10	05-07-0555	Α	WDMT SUPP END 2-2 24BW BIN LD	1
11	5/10/3776	Α	BRKT SUPP FR SHORT 24BW BIN LD	1
12	5/10/3777	Α	BRKT SUPP FR TALL 24BW BIN LD	3
13	5/10/3780	Α	PLT UNCG STOP 24BW BIN LD	2
14	06-01-0080	Α	BOLT .500-13 X 1.25 ZP GR5	12
15	06-01-0127	Α	BOLT, CARRIAGE, .375-16 X 1 1/4 ZP G5	84
16	06-03-0014	Α	NUT LOCK FLG .375-16 ZP GR5	84
17	06-03-0015	Α	NUT LOCK FLG .500-13 ZP GR5	12
18	101A36	Α	PLT UNCG BACKING MID SUPP	2
19	101AA4	Α	BRKT SUPP	2
20	101BBE	Α	SHIPPING BRACKET	2
21	13-05-0196	Α	TRANSPORT SLIDE ASSEMBLY	1

S4000 BIN FILL CONVEYOR OUTLET SECTION & PARTS LIST 40' SINGLE PHASE

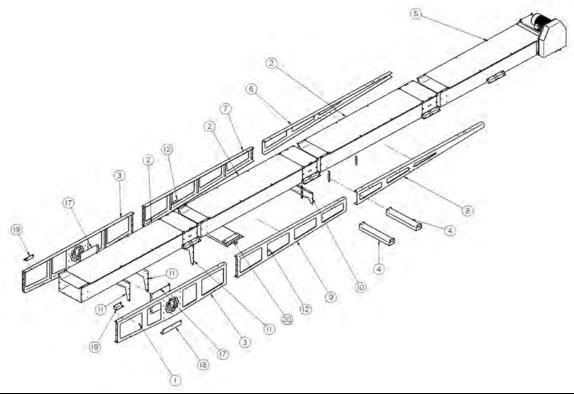


Item#	Part #	<u>Rev</u>	<u>Title</u>	Qty
1	03-09-0004	Α	CBL TIE PAD .180	13
2	05-07-0355	Α	ASSY CNVR 24IN 10FT MID SECT	3
3	05-07-0362B	В	WDMT SUPP MID 6524	2
4	05-07-0381	Α	WDMT FORKLIFT POCKET 24BW BIN LD	2
5	05-07-0472	Α	ASSY CNVR BIN LD HEAD SECT 10HP 1PH	1
6	05-07-0552	Α	WDMT SUPP END 1-1 24BW BIN LD	1
7	05-07-0553	Α	WDMT SUPP END 1-2 24BW BIN LD	1
8	05-07-0554	Α	WDMT SUPP END 2-1 24BW BIN LD	1
9	05-07-0555	Α	WDMT SUPP END 2-2 24BW BIN LD	1
10	5/10/3776	Α	BRKT SUPP FR SHORT 24BW BIN LD	1
11	5/10/3777	Α	BRKT SUPP FR TALL 24BW BIN LD	3
12	5/10/3780	Α	PLT UNCG STOP 24BW BIN LD	2
13	06-01-0080	Α	BOLT .500-13 X 1.25 ZP GR5	12
14	06-01-0127	Α	BOLT, CARRIAGE, .375-16 X 1 1/4 ZP G5	84
15	06-03-0014	Α	NUT LOCK FLG .375-16 ZP GR5	84
16	06-03-0015	Α	NUT LOCK FLG .500-13 ZP GR5	12
17	101A36	Α	PLT UNCG BACKING MID SUPP	2
18	101AA4	Α	BRKT SUPP	2
19	101BBE	Α	SHIPPING BRACKET	2
20	13-05-0196	Α	TRANSPORT SLIDE ASSEMBLY	1

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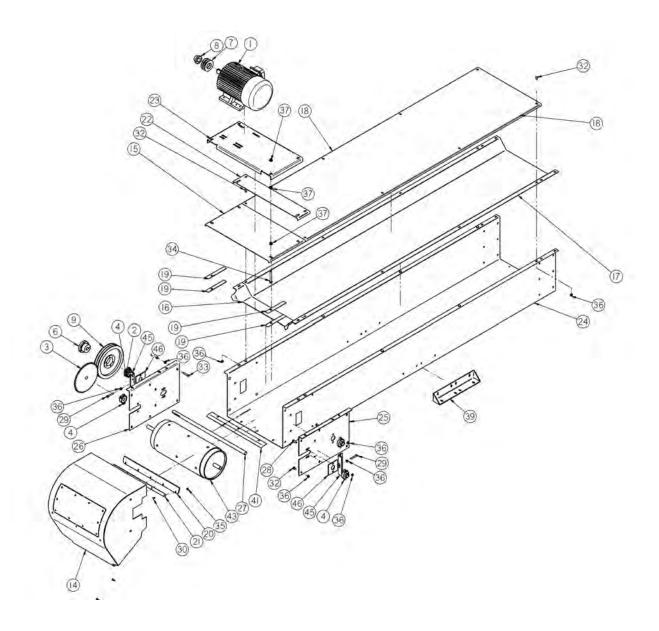


S4000 BIN FILL CONVEYOR OUTLET SECTION & PARTS LIST 40' THREE PHASE



Item#	Part #	Rev	<u>Title</u>	<u>Qty</u>
1	03-09-0004	Α	CBL TIE PAD .180	13
2	05-07-0355	Α	ASSY CNVR 24IN 10FT MID SECT	3
3	05-07-0362B	В	WDMT SUPP MID 6524	2
4	05-07-0381	Α	WDMT FORKLIFT POCKET 24BW BIN LD	2
5	05-07-0471	Α	ASSY CNVR 24IN HEAD SECT	1
6	05-07-0552	Α	WDMT SUPP END 1-1 24BW BIN LD	1
7	05-07-0553	Α	WDMT SUPP END 1-2 24BW BIN LD	1
8	05-07-0554	Α	WDMT SUPP END 2-1 24BW BIN LD	1
9	05-07-0555	Α	WDMT SUPP END 2-2 24BW BIN LD	1
10	5/10/3776	Α	BRKT SUPP FR SHORT 24BW BIN LD	1
11	5/10/3777	Α	BRKT SUPP FR TALL 24BW BIN LD	3
12	5/10/3780	Α	PLT UNCG STOP 24BW BIN LD	2
13	06-01-0080	Α	BOLT .500-13 X 1.25 ZP GR5	12
14	06-01-0127	Α	BOLT, CARRIAGE, .375-16 X 1 1/4 ZP G5	84
15	06-03-0014	Α	NUT LOCK FLG .375-16 ZP GR5	84
16	06-03-0015	Α	NUT LOCK FLG .500-13 ZP GR5	12
17	101A36	Α	PLT UNCG BACKING MID SUPP	2
18	101AA4	Α	BRKT SUPP	2
19	101BBE	Α	SHIPPING BRACKET	2
20	13-05-0196	Α	TRANSPORT SLIDE ASSEMBLY	1

S4000 BIN FILL CONVEYOR HEAD SECTION & PARTS LIST 7.5 HP SINGLE PHASE



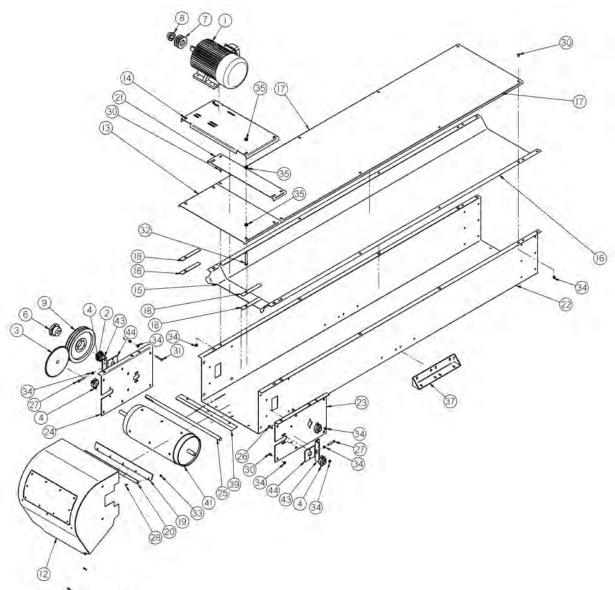
Item#	Part #	Rev	<u>Title</u>	Qty
1	01-01-0135	Α	MTR 7.5HP 1740RPM 215T TEFC 1PH	1
2	01-02-0093	Α	SPROCKET, 50BS14H, 1" BORE	1
3	01-02-0114	Α	SPKT 50T 50P 1.00ID KWY	1
4	01-03-0042	Α	BRG FLG MNT 1.000ID 2BOLT ECNTRC	4
5	01-04-0005	Α	#50 CNTG LINK	1
6	01-08-0037		BUSHING SK 1.00	1
7	01-08-0076	Α	SHV 2BLT PD 3.4 2B3.4SH SH BUSH	1
8	01-08-0081	Α	BUSH 1.375IN BORE TYPE SH	1

S4000 BIN FILL CONVEYOR HEAD SECTION & PARTS LIST 7.5 HP SINGLE PHASE

Item#	Part #	Rev	Title	Qty
9	01-08-0087	Α	SHV 2B110SK	1
10*	01-08-0091	Α	BELT AX54	2
11*	01-10-0005	Α	1/4" KEY, CS - 1 1/2" LONG	1
12*	01-10-0005	Α	1/4" KEY, CS - 1 1/2" LONG	2
13*	05-06-0078	Α	WDMT GRD FRNT BIN LD	1
14	05-07-0347	Α	TAPERED DISCHARGE SPOUT WELDMENT	1
15	5/10/2541	В	TOP CVR DSCHG 24BW	1
16	5/10/2543	Α	TROUGH TRANS PLT 24BW	1
17	05-10-2547C	С	TROUGHING PAN 24BW HEAD SECTION	1
18	5/10/2550	В	TOP COVER 24BW 10FT MID SECTION	1
19	5/10/3267	Α	SPCR UB HEAD CVR 16GA	4
20	5/10/3566	Α	PLT S4000 CNVR BLT SCRAPER RBBR	1
21	5/10/3567	Α	PLT S4000 CNVR BLT SCRAPER HLDR	1
22	5/10/3650	Α	PLT CNVR SPLICE HEAD CVR S4000	1
23	5/10/3704	Α	PLT MTR MNT BIN LD	1
24	5/10/3705	Α	FR BIN LD HEAD SECT	1
25	5/10/3706	Α	HEAD PLT LH BIN LD	1
26	5/10/3707	Α	HEAD PLT RH BIN LD	1
27	05-11-0171	Α	32 X 1 INCH JACK HEAD SHAFT	1
28	06-01-0053	Α	BOLT .375-16 X 1.25 ZP GR5	8
29	06-01-0071	Α	BOLT, .375-16 X 2 1/2 ZP G5 FULL THREAD	2
30	06-01-0122	Α	BOLT, CARRIAGE, .250-20x.75 G5 ZP	5
31*	06-01-0124	Α	BOLT, FLG .375-16 UNC ZP GRADE 5; 3/4" LG	5
32	06-01-0153	Α	BOLT CRG .375-16X.750 ZP SHORT NECK	29
33	06-01-0154	Α	BOLT CRG .375-16 X 2.50 FTH ZP GR5	4
34	06-01-0157	Α	BOLT, .500-13 X 4" UNC ZP GRADE 5 fth	4
35	06-03-0013	Α	NUT,LOCK, FLG .250-20 ZP SERRATTED	5
36	06-03-0014	Α	NUT LOCK FLG .375-16 ZP GR5	50
37	06-03-0015	Α	NUT LOCK FLG .500-13 ZP GR5	12
38*	06-03-0019	Α	NUT LOCK FLG .3125-18 ZP GR5	3
39	101A30	Α	101A30	2
40	101AA8	Α	PLT GRD BACK BIN LD	1
41	13-04-0095	Α	KIT S2000 CLOSE GAP AT HEAD SECT	1
42	13-05-0098	Α	6" CONVEYOR REBAG SPOUT S4000	1
43	13-05-0195	Α	WDMT 23.5 X 4 HEAD PLLY	1
44	13-05-0200	Α	CHAIN #50 24BW BIN LD DRV	1
45	280-2-0016	Α	TRACKING ANGLE WELDMENT	2
46	280-3-0112	Α	BEARING SPACER PLATE	2



S4000 BIN FILL CONVEYOR HEAD SECTION & PARTS LIST 7.5 HP THREE PHASE



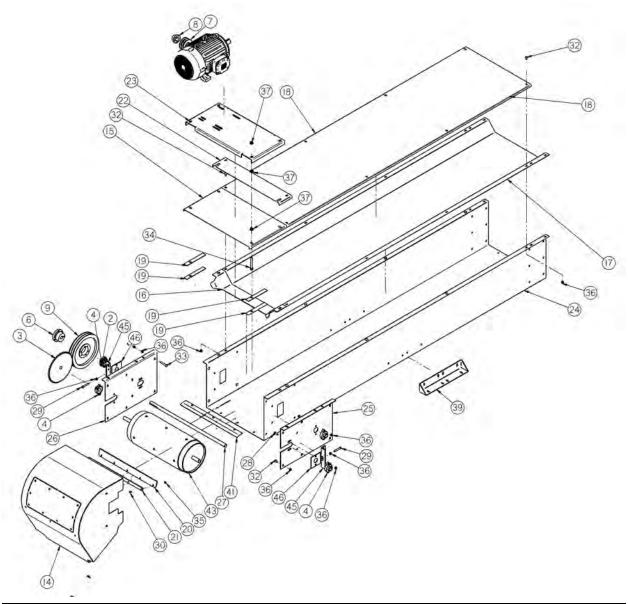
Item#	Part #	<u>Rev</u>	<u>Title</u>	Qty
1	01-01-0153	Α	MTR EE 7.5HP 1760RPM 213T TEFC 3PH	1
2	01-02-0093	Α	SPROCKET, 50BS14H, 1" BORE	1
3	01-02-0114	Α	SPKT 50T 50P 1.00ID KWY	1
4	01-03-0042	Α	BRG FLG MNT 1.000ID 2BOLT ECNTRC	4
5	01-04-0005	Α	#50 CNTG LINK	1
6	01-08-0037		BUSHING SK 1.00	1
7	01-08-0076	Α	SHV 2BLT PD 3.4 2B3.4SH SH BUSH	1
8	01-08-0081	Α	BUSH 1.375IN BORE TYPE SH	1

S4000 BIN FILL CONVEYOR HEAD SECTION & PARTS LIST 7.5 HP THREE PHASE

Item#	Part #	Rev	<u>Title</u>	Qty
9	01-08-0087	Α	SHV 2B110SK	1
10*	01-08-0091	Α	BELT AX54	2
11*	05-06-0078	Α	WDMT GRD FRNT BIN LD	1
12	05-07-0347	Α	TAPERED DISCHARGE SPOUT WELDMENT	1
13	5/10/2541	В	TOP CVR DSCHG 24BW	1
14	5/10/2542	Α	MTR MNT 24BW	1
15	5/10/2543	Α	TROUGH TRANS PLT 24BW	1
16	05-10-2547C	С	TROUGHING PAN 24BW HEAD SECTION	1
17	5/10/2550	В	TOP COVER 24BW 10FT MID SECTION	1
18	5/10/3267	Α	SPCR UB HEAD CVR 16GA	4
19	5/10/3566	Α	PLT S4000 CNVR BLT SCRAPER RBBR	1
20	5/10/3567	Α	PLT S4000 CNVR BLT SCRAPER HLDR	1
21	5/10/3650	Α	PLT CNVR SPLICE HEAD CVR S4000	1
22	5/10/3705	Α	FR BIN LD HEAD SECT	1
23	5/10/3706	Α	HEAD PLT LH BIN LD	1
24	5/10/3707	Α	HEAD PLT RH BIN LD	1
25	05-11-0171	Α	32 X 1 INCH JACK HEAD SHAFT	1
26	06-01-0053	Α	BOLT .375-16 X 1.25 ZP GR5	8
27	06-01-0071	Α	BOLT, .375-16 X 2 1/2 ZP G5 FULL THREAD	2
28	06-01-0122	Α	BOLT, CARRIAGE, .250-20x.75 G5 ZP	5
29*	06-01-0124	Α	BOLT, FLG .375-16 UNC ZP GRADE 5; 3/4" LG	5
30	06-01-0153	Α	BOLT CRG .375-16X.750 ZP SHORT NECK	29
31	06-01-0154	Α	BOLT CRG .375-16 X 2.50 FTH ZP GR5	4
32	06-01-0157	Α	BOLT, .500-13 X 4" UNC ZP GRADE 5 fth	4
33	06-03-0013	Α	NUT,LOCK, FLG .250-20 ZP SERRATTED	5
34	06-03-0014	Α	NUT LOCK FLG .375-16 ZP GR5	50
35	06-03-0015	Α	NUT LOCK FLG .500-13 ZP GR5	12
36*	06-03-0019	Α	NUT LOCK FLG .3125-18 ZP GR5	3
37	101A30	Α	101A30	2
38	101AA8	Α	PLT GRD BACK BIN LD	1
39	13-04-0095	Α	KIT S2000 CLOSE GAP AT HEAD SECT	1
40	13-05-0098	Α	6" CONVEYOR REBAG SPOUT S4000	1
41	13-05-0195	Α	WDMT 23.5 X 4 HEAD PLLY	1
42	13-05-0200	Α	CHAIN #50 24BW BIN LD DRV	1
43	280-2-0016	Α	TRACKING ANGLE WELDMENT	2
44	280-3-0112	Α	BEARING SPACER PLATE	2



S4000 BIN FILL CONVEYOR HEAD SECTION & PARTS LIST 10 HP SINGLE PHASE



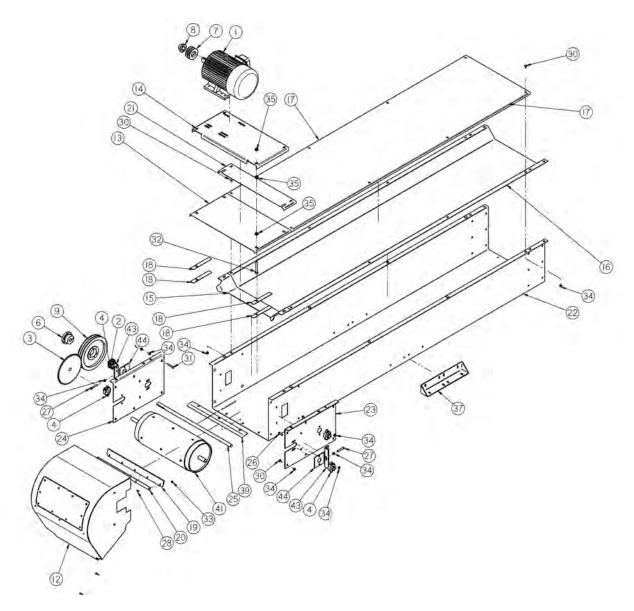
Item#	Part #	Rev	<u>Title</u>	Qty
1*	01-01-0131	Α	MTR 10HP 1760RPM 215T TEFC 230V 1PH	1
2	01-02-0093	Α	SPROCKET, 50BS14H, 1" BORE	1
3	01-02-0114	Α	SPKT 50T 50P 1.00ID KWY	1
4	01-03-0042	Α	BRG FLG MNT 1.000ID 2BOLT ECNTRC	4
5	01-04-0005	Α	#50 CNTG LINK	1
6	01-08-0037		BUSHING SK 1.00	1
7	01-08-0076	Α	SHV 2BLT PD 3.4 2B3.4SH SH BUSH	1
8	01-08-0081	Α	BUSH 1.375IN BORE TYPE SH	1

S4000 BIN FILL CONVEYOR HEAD SECTION & PARTS LIST 10 HP SINGLE PHASE

Item#	Part #	Rev	Title	Qty
9	01-08-0087	Α	SHV 2B110SK	1
10*	01-08-0091	Α	BELT AX54	2
11*	01-10-0005	Α	1/4" KEY, CS - 1 1/2" LONG	1
12*	01-10-0005	Α	1/4" KEY, CS - 1 1/2" LONG	2
13*	05-06-0078	Α	WDMT GRD FRNT BIN LD	1
14	05-07-0347	Α	TAPERED DISCHARGE SPOUT WELDMENT	1
15	5/10/2541	В	TOP CVR DSCHG 24BW	1
16	5/10/2543	Α	TROUGH TRANS PLT 24BW	1
17	05-10-2547C	С	TROUGHING PAN 24BW HEAD SECTION	1
18	5/10/2550	В	TOP COVER 24BW 10FT MID SECTION	1
19	5/10/3267	Α	SPCR UB HEAD CVR 16GA	4
20	5/10/3566	Α	PLT S4000 CNVR BLT SCRAPER RBBR	1
21	5/10/3567	Α	PLT S4000 CNVR BLT SCRAPER HLDR	1
22	5/10/3650	Α	PLT CNVR SPLICE HEAD CVR S4000	1
23	5/10/3704	Α	PLT MTR MNT BIN LD	1
24	5/10/3705	Α	FR BIN LD HEAD SECT	1
25	5/10/3706	Α	HEAD PLT LH BIN LD	1
26	5/10/3707	Α	HEAD PLT RH BIN LD	1
27	05-11-0171	Α	32 X 1 INCH JACK HEAD SHAFT	1
28	06-01-0053	Α	BOLT .375-16 X 1.25 ZP GR5	8
29	06-01-0071	Α	BOLT, .375-16 X 2 1/2 ZP G5 FULL THREAD	2
30	06-01-0122	Α	BOLT, CARRIAGE, .250-20x.75 G5 ZP	5
31*	06-01-0124	Α	BOLT, FLG .375-16 UNC ZP GRADE 5; 3/4" LG	5
32	06-01-0153	Α	BOLT CRG .375-16X.750 ZP SHORT NECK	29
33	06-01-0154	Α	BOLT CRG .375-16 X 2.50 FTH ZP GR5	4
34	06-01-0157	Α	BOLT, .500-13 X 4" UNC ZP GRADE 5 fth	4
35	06-03-0013	Α	NUT,LOCK, FLG .250-20 ZP SERRATTED	5
36	06-03-0014	Α	NUT LOCK FLG .375-16 ZP GR5	50
37	06-03-0015	Α	NUT LOCK FLG .500-13 ZP GR5	12
38*	06-03-0019	Α	NUT LOCK FLG .3125-18 ZP GR5	3
39	101A30	Α	101A30	2
40	101AA8	Α	PLT GRD BACK BIN LD	1
41	13-04-0095	Α	KIT S2000 CLOSE GAP AT HEAD SECT	1
42	13-05-0098	Α	6" CONVEYOR REBAG SPOUT S4000	1
43	13-05-0195	Α	WDMT 23.5 X 4 HEAD PLLY	1
44	13-05-0200	Α	CHAIN #50 24BW BIN LD DRV	1
45	280-2-0016	Α	TRACKING ANGLE WELDMENT	2
46	280-3-0112	Α	BEARING SPACER PLATE	2



S4000 BIN FILL CONVEYOR HEAD SECTION & PARTS LIST 10 HP THREE PHASE



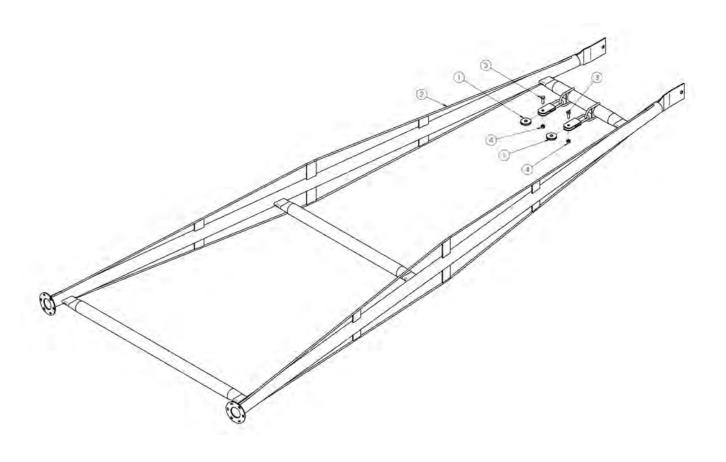
Item#	Part #	Rev	<u>Title</u>	Qty
itelli #	<u>rait#</u>	nev	<u>ritie</u>	<u> </u>
1	01-01-0152	Α	MTR EE 10HP 1760RPM 215T TEFC 3PH	1
2	01-02-0093	Α	SPROCKET, 50BS14H, 1" BORE	1
3	01-02-0114	Α	SPKT 50T 50P 1.00ID KWY	1
4	01-03-0042	Α	BRG FLG MNT 1.000ID 2BOLT ECNTRC	4
5	01-04-0005	Α	#50 CNTG LINK	1
6	01-08-0037		BUSHING SK 1.00	1
7	01-08-0076	Α	SHV 2BLT PD 3.4 2B3.4SH SH BUSH	1
8	01-08-0081	Α	BUSH 1.375IN BORE TYPE SH	1

S4000 BIN FILL CONVEYOR HEAD SECTION & PARTS LIST 10 HP THREE PHASE

Item#	Part #	Rev	<u>Title</u>	Qty
9	01-08-0087	Α	SHV 2B110SK	1
10*	01-08-0091	Α	BELT AX54	2
11*	05-06-0078	Α	WDMT GRD FRNT BIN LD	1
12	05-07-0347	Α	TAPERED DISCHARGE SPOUT WELDMENT	1
13	5/10/2541	В	TOP CVR DSCHG 24BW	1
14	5/10/2542	Α	MTR MNT 24BW	1
15	5/10/2543	Α	TROUGH TRANS PLT 24BW	1
16	05-10-2547C	С	TROUGHING PAN 24BW HEAD SECTION	1
17	5/10/2550	В	TOP COVER 24BW 10FT MID SECTION	1
18	5/10/3267	Α	SPCR UB HEAD CVR 16GA	4
19	5/10/3566	Α	PLT S4000 CNVR BLT SCRAPER RBBR	1
20	5/10/3567	Α	PLT S4000 CNVR BLT SCRAPER HLDR	1
21	5/10/3650	Α	PLT CNVR SPLICE HEAD CVR S4000	1
22	5/10/3705	Α	FR BIN LD HEAD SECT	1
23	5/10/3706	Α	HEAD PLT LH BIN LD	1
24	5/10/3707	Α	HEAD PLT RH BIN LD	1
25	05-11-0171	Α	32 X 1 INCH JACK HEAD SHAFT	1
26	06-01-0053	Α	BOLT .375-16 X 1.25 ZP GR5	8
27	06-01-0071	Α	BOLT, .375-16 X 2 1/2 ZP G5 FULL THREAD	2
28	06-01-0122	Α	BOLT, CARRIAGE, .250-20x.75 G5 ZP	5
29*	06-01-0124	Α	BOLT, FLG .375-16 UNC ZP GRADE 5; 3/4" LG	5
30	06-01-0153	Α	BOLT CRG .375-16X.750 ZP SHORT NECK	29
31	06-01-0154	Α	BOLT CRG .375-16 X 2.50 FTH ZP GR5	4
32	06-01-0157	Α	BOLT, .500-13 X 4" UNC ZP GRADE 5 fth	4
33	06-03-0013	Α	NUT,LOCK, FLG .250-20 ZP SERRATTED	5
34	06-03-0014	Α	NUT LOCK FLG .375-16 ZP GR5	50
35	06-03-0015	Α	NUT LOCK FLG .500-13 ZP GR5	12
36*	06-03-0019	Α	NUT LOCK FLG .3125-18 ZP GR5	3
37	101A30	Α	101A30	2
38	101AA8	Α	PLT GRD BACK BIN LD	1
39	13-04-0095	Α	KIT S2000 CLOSE GAP AT HEAD SECT	1
40	13-05-0098	Α	6" CONVEYOR REBAG SPOUT S4000	1
41	13-05-0195	Α	WDMT 23.5 X 4 HEAD PLLY	1
42	13-05-0200	Α	CHAIN #50 24BW BIN LD DRV	1
43	280-2-0016	Α	TRACKING ANGLE WELDMENT	2
44	280-3-0112	Α	BEARING SPACER PLATE	2

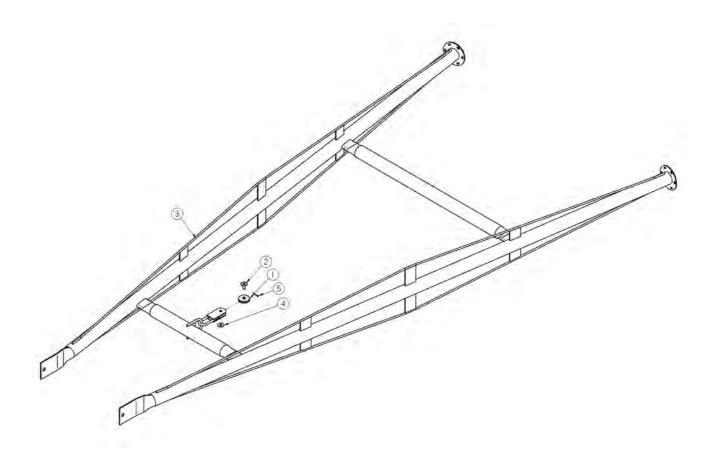


SERIES 4000 BIN FILL CONVEYOR UPPER A FRAME & PARTS LIST



Item#	Part #	Rev	<u>Title</u>	Qty
1	01-02-0074	Α	PLLY WIRE ROPE 3 IN DIA	2
2	05-08-0108	Α	WDMT UPPER A FR 24BW BIN LD CNVR	1
3	06-01-0065	Α	BOLT, .750-10 X 2.0 UNC ZP GRADE 5	2
4	06-02-0029	Α	NUT,LOCK, .750-10 ZP NE NYLON INSERT	2

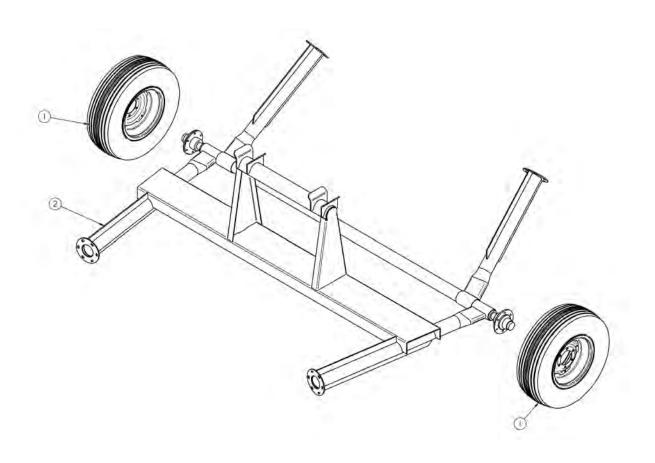
SERIES 4000 BIN FILL CONVEYOR LOWER A FRAME & PARTS LIST



Item#	Part #	Rev	<u>Title</u>	Qty
1	01-02-0074	Α	PLLY WIRE ROPE 3 IN DIA	1
2	05-03-0942	Α	WDMT PIN SHV BRKT	1
3	05-08-0107	Α	WDMT LOWER A FR 24BW BIN LD CNVR	1
4	06-05-0007	Α	WASHER, .750 FLAT ZP	1
5	06-09-0023	Α	.188 X 2.00 ZP COTTER PIN	1

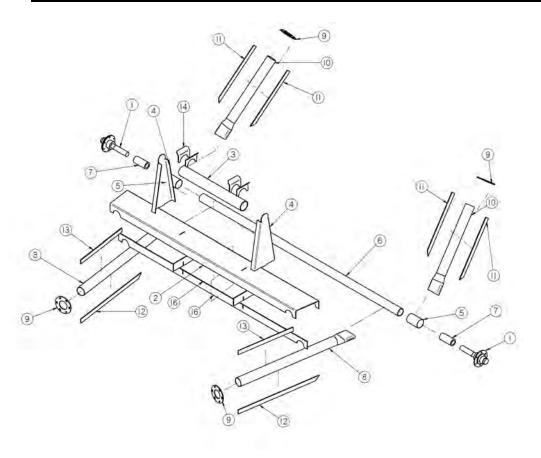


SERIES 4000 BIN FILL CONVEYOR AXLE FRAME & PARTS LIST



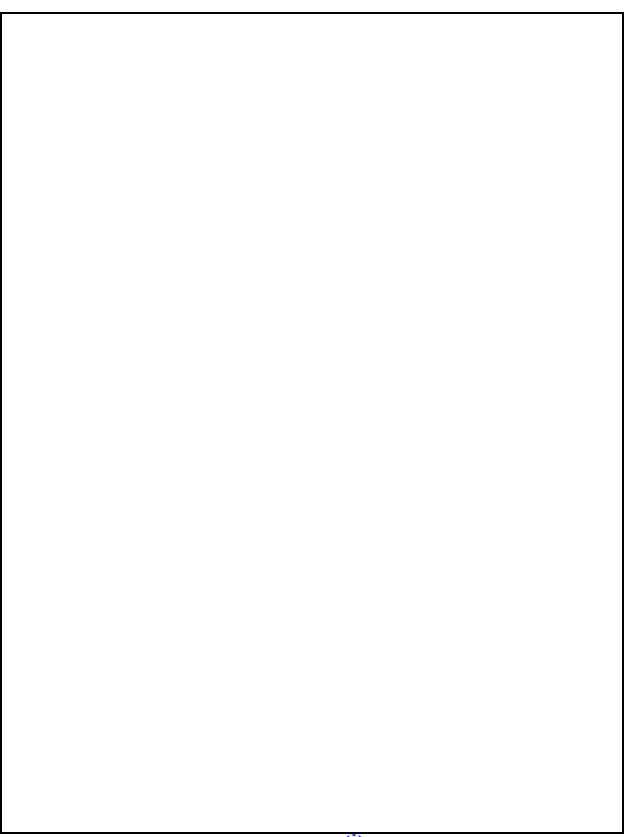
Item#	Part #	Rev	<u>Title</u>	Qty
1	01-06-0096	Α	WHL ASSY 11L/15 - 15X8 6HL AG TYPE	2
2	05-08-0106B	В	WDMT AXLE SECT 24BW BIN LD CNVR	1

SERIES 4000 BIN FILL CONVEYOR AXLE ASSEMBLY & PARTS LIST



Item#	Part #	Rev	<u>Title</u>	<u>Qty</u>
1	05-11-0299	Α	SPINDLE AG 3500 LB 6 HOLE BIN LD	2
2	101AA2-B	В	BRKT UNCG CNVR SUPP	1
3	101AA5-B	В	BAR UNCG CNVR SUPP	1
4	101AA6-B	В	BRKT UNCG CNVR SUPP	2
5	101AAA	Α	AXLE SLEEVE UNCG 6524 BIN LD	2
6	101AAF	Α	AXLE UNCG 6524 BIN LD	1
7	101AB8	Α	BUSH SPNDL BIN LD	2
8	101B9F	Α	UNCG ARM	2
9	101BA0	В	PLT CONN UNCG	4
10	101BA2	Α	UNCG ARM	2
11	101BB3	Α	STIFFENER UNCG	4
12	101BB4	Α	STIFFENER UNCG	2
13	101BB5-B	В	STIFFENER UNCG	2
14	101BB6	Α	BRKT CRADLE	4
15*	101DBD	Α	STIFFENER SUPP BRKT	2
16	101DBE	Α	STIFFENER SUPP BRKT	1

NOTES



SECTION

LIMITED WARRANTY

USC, LLC, (Manufacturer) warrants its seed treating equipment as follows:

- 1. <u>Limited Warranty</u>: Manufacturer warrants that the Products sold hereunder will be free from defects in material and workmanship for a period of 12 months from date of shipment. If the Products do not conform to this Limited Warranty during the warranty period, Buyer shall notify Manufacturer in writing of the claimed defects and demonstrate to Manufacturer satisfaction that said defects are covered by this Limited Warranty. If the defects are properly reported to Manufacturer within the warranty period, and the defects are of such type and nature as to be covered by this warranty, Manufacturer shall, at its expense, furnish replacement Products or, at Manufacturer's option, replacement parts for the defective products. Shipping and installation of the replacement Products or replacement parts shall be at the Buyer's expense.
- 2. Other Limits: THE FOREGOING IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Manufacturer does not warrant against damages or defects arising from improper installation (where installation is by persons other than Manufacturer), against defects in products or components not manufactured by Manufacturer, or against damages resulting from such non-Manufacturer made products or components. Manufacturer passes on to the Buyer the warranty it received (if any) from the maker of such non-Manufacturer made products or components. This warranty also does not apply to Products upon which repairs and/or modifications have been effected or attempted by persons other than pursuant to written authorization by Manufacturer. Manufacturer does not warrant against casualties or damages resulting from misuse and/or abuse of product(s), acts of nature, effects of weather, including effects of weather due to outside storage, accidents, or damages incurred during transportation by common carrier.
- 3. <u>Exclusive Obligation:</u> THIS WARRANTY IS EXCLUSIVE. The sole and exclusive obligation of Manufacturer shall be to repair or replace the defective Products in the manner and for the period provided above. Manufacturer shall not have any other obligation with respect to the Products or any part thereof, whether based on contract, tort, strict liability or otherwise. Under no circumstances, whether based on this Limited Warranty or otherwise, shall Manufacturer be liable for incidental, special, or consequential damages.
- 4. <u>Other Statements:</u> Manufacturer's employees or representatives' oral or other written statements do not constitute warranties, shall not be relied upon by Buyer, and are not a part of the contract for sale or this limited warranty.
- 5. **Return Policy:** Approval is required prior to returning goods to USC, LLC. A restocking fee will apply.
- 6. <u>Entire Obligation:</u> This Limited Warranty states the entire obligation of Manufacturer with respect to the Products. If any part of this Limited Warranty is determined to be void or illegal, the remainder shall remain in full force and effect.





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