

# Series II 26" and 32" Tall En-Masse Chain Conveyors



**PNEG-1043** 

Date: 12-21-20





## **Equipment Information**

Use of the Equipment Information page will help you identify your equipment in case you need to call your dealer or installer. This information should be filled out and kept on record.

#### **Equipment Information**

Model Number:	Date Purchased:
Serial Number:	Dealer/Distributor Name and Phone Number:

#### **GSI Material Handling**

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#### **Safety Guidelines**

This manual contains information that is important for you, the owner/operator, to know and understand. This information relates to protecting *personal safety* and *preventing equipment problems*. It is the responsibility of the owner/operator to inform anyone operating or working in the area of this equipment of these safety guidelines. To help you recognize this information, we use the symbols that are defined below. Please read the manual and pay attention to these sections. Failure to read this manual and its safety instructions is a misuse of the equipment and may lead to serious injury or death.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



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



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



**CAUTION**, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



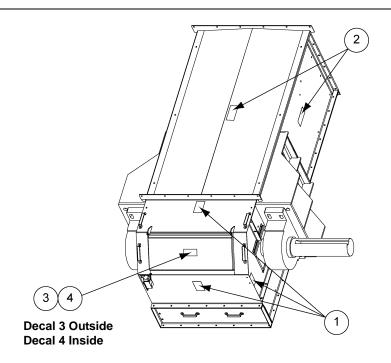
**NOTICE** is used to address practices not related to personal injury.

## **Safety Sign-Off Sheet**

As a requirement of O.S.H.A., it is necessary for the employer to train the employee in the safe operating and safety procedures for this auger. This sign-off sheet is provided for your convenience and personal record keeping. All unqualified persons are to stay out of the work area at all times. It is strongly recommended that another qualified person who knows the shut down procedure be in the area in the event of an emergency.

Date	Employee Name	Supervisor Name

## **Head Section Decal Locations**







Moving parts can crush and cut. Keep hands clear. Do not operate without guards in place. Failure to do so could result in serious injury.

GSI Group 217-226-4421

DC-972

(4)





# **WARNING**

#### **EXPOSED CONVEYORS**

Moving parts can cause serious injury. Lockout power before removing covers or inspection door.



## WARNING

#### Moving parts can crush and cut.

- Keep hands clear.
- Do not operate with guard removed.
- Disconnect and lockout power before servicing.

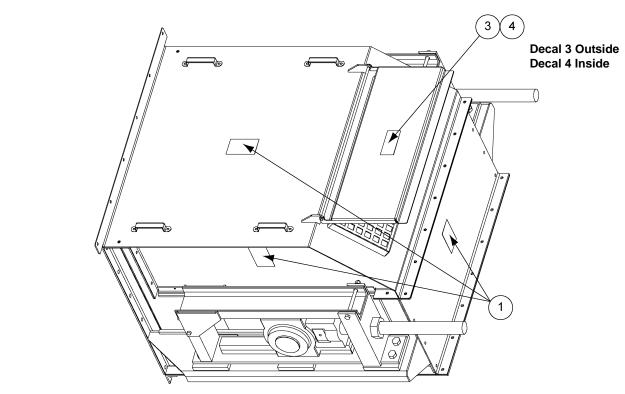


## DANGER

Moving parts can crush and cut.

- Keep hands clear
- Do not operate with guard removed.
- Disconnect and lockout power before servicing.

#### **Tail Section Decal Locations**







Moving parts can crush and cut. Keep hands clear. Do not operate without guards in place. Failure to do so could result in serious injury.

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DC-972



# **WARNING**

# Moving parts can crush and cut.

- Keep hands clear.
- Do not operate with guard removed.
- Disconnect and lockout power before servicing.

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## DANGER

Moving parts can crush and cut.

- Keep hands clear
- Do not operate with guard removed.
- Disconnect and lockout power before servicing.

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#### 3. General Precautions



- 1. Read and understand the Operator's manual BEFORE operating the unit.
- 2. Keep all safety shields and devices in place.
- 3. Keep all covers in place.
- 4. Make certain everyone is clear of the equipment before operating.
- 5. Keep hands, feet and clothing away from moving parts.
- 6. Shut OFF and lock out all power to adjust, service, clean or unclog the unit.
- 7. Keep off the equipment at all times.
- 8. Keep children, visitors and all untrained personnel away from the machine when in operation.
- 9. Do not operate electric motor equipped units until motors are properly grounded.
- 10. Disconnect power on electrical driven units before resetting motor overloads.
- 11. Do not repetitively stop and start the drive in order to free a plugged condition. "Jogging" the drive in this manner can damage the conveyor and/or drive components.

#### **Receiving Inspection**

Carefully inspect the shipment as soon as it is received. Verify that the quantity of parts or packages actually received corresponds to the quantity shown on the packing slip. Any discrepancies should be clarified immediately. Please remember that any damage or missing parts must be noted on the bill of lading at the time of delivery. Report any damage or shortage to the delivering carrier as soon as possible. GSI's responsibility for damage to the equipment ends with acceptance by the delivering carrier.

Save all paperwork and documentation furnished with any of the en-masse conveyor components.

#### **Pre-Installation Preparation**

Familiarize yourself thoroughly with this manual and all the conveyor parts. Read the Operator's manual and all safety signs before using or servicing equipment. Taking the time to do so will aid in the assembly of the conveyor.

Remove all banding and crating material. Arrange the conveyor components so that they are easily accessible.

Locate sturdy items to serve as blocking. (i.e. wood blocks, saw horses, etc.) Blocking is used to support the conveyor sections above the ground to help in assembly. Locate and place the conveyor sections on the blocking in order, starting with the head section and concluding with the tail section.

## **Head and Tail Assembly**

The head and tail sections of the chain conveyor are shipped pre-assembled direct from the factory. Intermediate trough sections may come factory pre-assembled or unassembled. The order will serve as a reference to how the trough section will arrive. If you have any questions, please refer to the order confirmation.

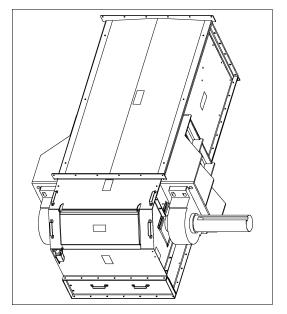


Figure 5A Head Assembly

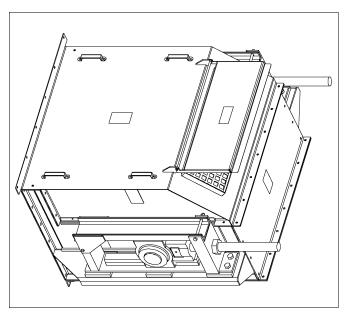


Figure 5B Tail Assembly

## **Intermediate Trough Section Assembly**

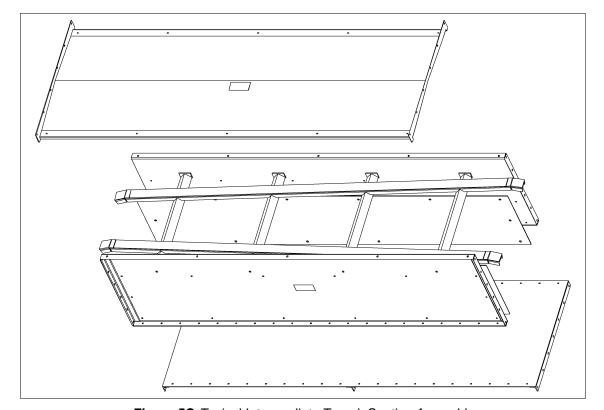


Figure 5C Typical Intermediate Trough Section Assembly

An en-masse conveyor may be purchased with unassembled trough sections. The following recommendations may prove useful in the assembly.

Before assembling conveyor trough sections together, remove the covers. Covers should be stored in a protected area in order to minimize any possible damage. Remember to retain factory shipped hardware for conveyor cover installation.

Take a moment to familiarize yourself with the trough assembly. Install the slide rail returns so that the wide ends of the rail returns face *away from* the discharge end of the conveyor. The narrow end of the rail returns, therefore, will face *toward* the discharge end.

Intermediate trough sections are supplied in standard ten feet (10') lengths. Depending on the application and individual specifications however, shorter sections may be required to accommodate a desired overall length.

Lay bottom plate weldment on blocking material. Next, loosely attach side weldments to bottom plate with 3/8" hardware provided. Then fasten slide rail return weldment to intermediate sides with the 1/2" hardware.

**NOTE:** It is critical for straightness of the conveyor that the sides and bottom flanges are aligned flush. Also, it is important that the inside dimensions of the box are equidistant in measurement from side-to-side both top and bottom of the trough box (Dimension A = Dimension B). (See Figure 5D.)

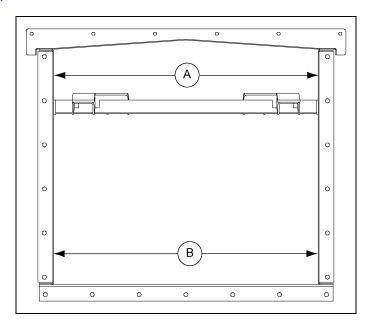


Figure 5D End View of Trough Section (Liners not shown for clarity.)

After making sure the flanges are aligned, tighten all hardware on the trough section. Abrasion Resisting (A.R.) liners are installed with the 3/8" flat countersunk hardware provided. Adequately tighten liners to conveyor sides. Make sure that the countersunk hardware is not protruding above the surface of the A.R. liners.

During assembly of each trough section to the next section, carefully inspect each flange joint to ensure that the inside bottom and side surfaces of the troughs are flush. A chalk line is helpful during this phase of the assembly to ensure the proper alignment of the trough surfaces. The maximum run-out in any direction should be  $\pm 1/4$ ". Proper alignment minimizes wear on flights and other potential damage to the conveyor. Make sure the conveyor is level in horizontal applications.

Proceed by attaching the head and tail assemblies using the same alignment procedures and precautions noted in the preceding paragraph.

## **Cover Assembly Installation**

Fasten covers to the en-masse conveyor with the 3/8" and 1/2" hardware provided. Adequately tighten the 1/2" bolts and nuts so that the vertical cover seams are in tight contact with each other.

When an inlet is on the conveyor, a cover section may have to be cut accordingly to accommodate the inlet. For installation of an inlet, see inlet assembly and installation below.

#### **Inlet Assembly and Installation**

One inlet is typically provided per conveyor. GSI's recommendation for inlet installation includes a minimum distance of no less than 6" between the closest edge of the inlet and the tail assembly. (See Figure 5E.)

The inlet can be attached with continuous weld seams. If intermittently welded, it is important to use caulking or sealing around the inlet area in order to seal the unit.

Similarly, GSI recommends that if inlets are welded onto the conveyor, this procedure should be done before the installation of motor and/or other electrical devices. If the owner fails to follow this precaution, the owner assumes all risks associated with this installation.

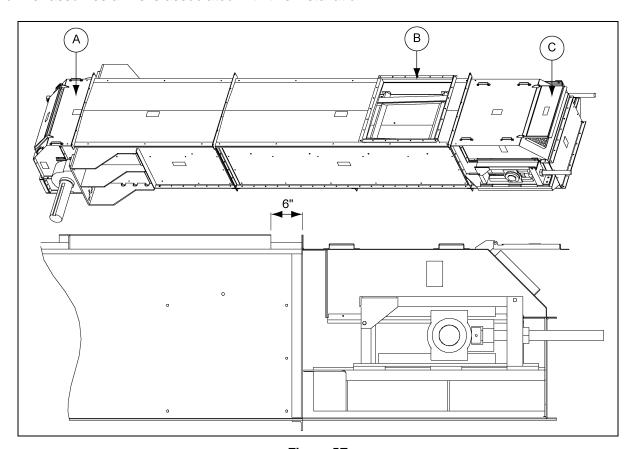


Figure 5E

Ref #	Description
Α	Head Discharge End
В	Standard Inlet
С	Tail End

### **Drag Chain Assembly Installation**

All chain supplied with new conveyors, regardless of type, will be installed in a similar manner. Correct total chain length has been determined for the installation by GSI. The conveyor drag chain is shipped in approximate ten feet (10') lengths with an additional pre-cut short section, if necessary (refer to packing list). If welded chain (WH132, WH155 or WH157) has been supplied with the conveyor, a minimum of five feet (5') of chain with cottered pin connectors will be supplied. These pin connectors and links may be removed as necessary for chain take-up. The chain may be installed at any time during conveyor assembly.

It is recommended however, that you position the chain over the slide rail returns and the sprockets in the head and tail assemblies. The UHMW wear pads should be in front of the welded chain flights in the direction of chain travel (A). (See Figure 5F.) Connect chain lengths together with connecting links and/or pins.

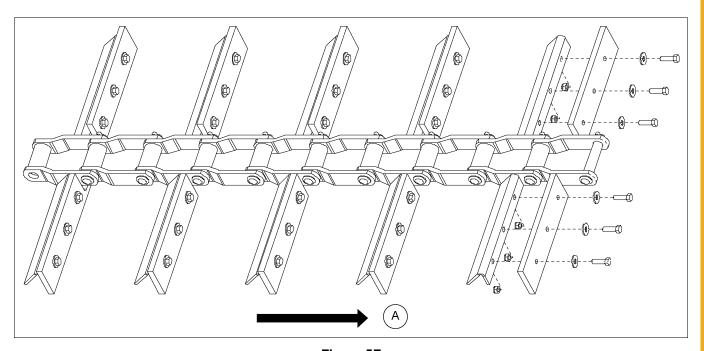


Figure 5F

Ref #	Description	
Α	Direction of Chain Travel Bottom Run	

Tighten the drag chain assembly using the take-up screws located on each side of the tail section or on the take-up head. The chain should be able to be lifted slightly when sufficiently tightened. After the chain is tight, check that the head and tail shafts are square to the box sides. If the shafts are not square, loosen the tighter of the two take-up screws until the shafts are square. Lock the take-up screws by tightening the jam nuts.

Rotate the chain, now on the sprockets, at least one complete revolution. Check to see that the chain and its wear pads are not catching on flanges or rubbing on the trough liners. Ensure a break-in period whereby the chain is allowed to run and seat itself. After running it for an adequate period of time, stop the machine, disconnect and lock out the power source. Re-tighten as necessary and remove any excess chain portions. Repeat this process as necessary.

#### **Installing Shaft Mount Reducers**

Assemble torque arm bracket to conveyor per installation instructions found on Page 15.

To aid in the installation of the reducer onto the shaft, remove any protective coating film from shaft. Slide the reducer onto the drive shaft extending from the side of the conveyor head section. Using the instructions and hardware supplied with the reducer, assemble it to the conveyor drive shaft.

Assemble motor mount to the reducer. Refer to installation instructions provided with motor mount.

Install the rear panel of the drive guard before mounting the sheaves. The rear panel has four (4) mounting brackets with slotted holes. Attach the lower brackets to the matching reducer assembly bolts. Attach the upper brackets to the matching holes in the front motor mount support.

Assemble the V-belt driven sheave to the input shaft of the shaft mount reducer. Slide the sheave hub onto the shaft and insert the square key. Attach the hub sheave using the supplied retaining screws. The retaining screws pass through the non-threaded holes of the hub and into the sheave. Align the driver and driven sheaves and tighten the retaining screws. During tightening, it is possible for the sheave to move out of alignment or become out of square. For maximum V-belt life, the driven sheave should remain both perpendicular to the drive shaft and aligned with the drive sheave. Slip the V-belts over both the driver and driven sheaves.

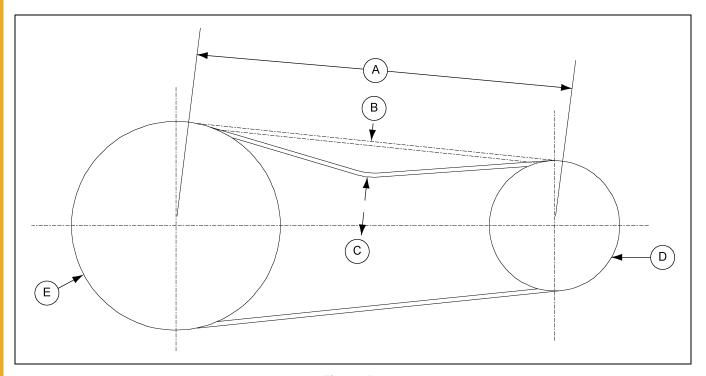


Figure 5G

Ref #	Description
А	Span
В	Belt deflection 1/64" per inch of span
С	Force
D	Motor
Е	Reducer

Adjustment of V-belt tension is achieved by tightening the hex nuts located on the four (4) jackscrews of the motor base. Adjust motor base equally at all four (4) jackscrews to maintain shaft alignment. Belts are designed to fit loose upon installation. When the V-belt tension is correct, tighten the top nut on the jackscrews to lock the motor base in position. Proper tension is 1/64" of deflection per one inch (1") of sheave centers on one side of belt, centered between sheaves.

**NOTE**: Too much tension shortens belt life. Check belt tension frequently during the first 24-48 hours of operation.

Install the front drive guard panel over the four (4) corner mounting studs. Secure with washers and nuts provided.

Fill the shaft mount reducer with the manufacturer's recommended oil. A list of recommended oil can be found in the gear reducer instructions.

#### **Torque Arm Bracket Installation**

When a drive package is ordered with the conveyor system, a torque arm bracket is provided.

The torque arm bracket is pre-punched for ease of installation on the unit. Begin installation of this option by first determining the location of the torque arm bracket relative to the range of extension allowed by the shaft mount reducer's torque arm. The bracket will extend on the same side of the conveyor as the head shaft. Remove the 5/8" bolts necessary from the bottom of the conveyor head bottom plate.

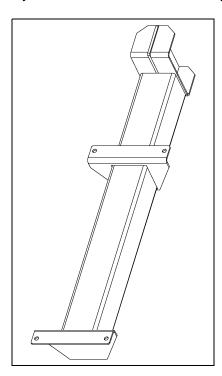


Figure 5H Torque Arm Bracket

Set the torque arm bracket in place and attach with the 5/8" hardware previously removed from the bottom plate of the conveyor. Four (4) 5/8" bolts and nuts are required to fasten the torque arm bracket to the conveyor.

Install shaft mount reducer to head shaft per instructions on Page 14.

Next, match the size of the hardware to the reducer manufacturer's torque arm. Use this hardware to attach the torque arm to the bracket. Adequately tighten all hardware.



Before any maintenance is performed to the conveyor, shut OFF and lock out power to prevent accidental start-up.

The care and maintenance section is provided to help extend the useful life of the unit. Like all equipment, the useful life of the conveyor is greatly reduced if not used wisely and well maintained.

Please follow the next few simple steps to ensure the safety and longevity of the equipment.

- 1. Check all bearings and moving parts daily during use.
- 2. Lubricate bearings according to bearing manufacturer's recommendations.
- 3. Follow manufacturer's recommendations for gear reducer lubrication and maintenance.
- 4. Inspect the V-belts periodically for proper tension and wear. V-belts should be replaced as necessary. If replacement or tension adjustment is required, please refer to the shaft mount reducer assembly section *on Page 14*.
- 5. The drag chain and sprockets should be checked periodically for wear, damage and proper adjustment. Any broken or bent paddles should be replaced or straightened. Should adjustment or replacement of the drag chain be required, refer to assembly section *on Page 13*.

#### **Storage**

If the unit is to be inactive for an extended period, the following procedures are recommended.

- 1. Thoroughly clean the unit.
- 2. Loosen the drag chain tension. Doing so relieves the stress placed on the bearings and shafts of the drive and tail sections.
- 3. Lubricate drag chains, shafts and drive components with a good grade of light machine oil.

## Welding

Welding on or to the conveyor may cause damage to both the conveyor and its electrical system. If welding is necessary, measures should be taken to protect the conveyor. Should it be necessary to fasten anything to the conveyor permanently, careful consideration should be given to methods of maintenance, removal and replacement of the conveyor and/or its parts. (Please refer to Inlet Installation for GSI recommended guidelines.)

#### **Motor**

Connect the conveyor motor to a power source according to the motor manufacturer's instructions and recommendations. To avoid injury it is recommended that a certified electrician perform the motor wiring. A shut off switch should be placed near the motor so that the system may easily be shut down to help prevent accidents during maintenance. It is important to check proper motor shaft rotation before installing drive belts.

#### **Support**

GSI's recommended general guidelines in this area include adequate support for the conveyor assembly to be installed at intervals no greater than 10 feet (10'). It is recommended that supports be installed at vertical portions of flanges, leaving bottoms of trough sections clear. By attaching supports in this manner, the removable bottoms are unobstructed for easy replacement. Support legs are available as an option.

#### Clearance

A clearance of at least the width of the conveyor is recommended on all sides of the unit. While clearance may be acceptable, serious consideration must be given to methods of maintenance, removal and replacement of the conveyor and/or its parts.

### **Discharge**

The standard conveyor is constructed with one discharge located at the drive end. If intermediate discharges are to be used, the location(s) must be determined prior to proceeding with the conveyor assembly. Intermediate discharges cannot be installed over a trough joint; therefore, it may be necessary to position a shorter trough section to serve as a spacer in order to accommodate the placement of the discharge(s) where they are required.

The owner assumes all responsibility for any alterations to the equipment.

#### **Inspection Ports**

After determining location(s) for the inspection port(s) on conveyor, cut an 11-3/4" square hole in the cover for each inspection port. Cut the square opening so that it is centered over the peak of the conveyor cover.

Position the inspection port over the square hole until its frame is flush to the cover. Weld inspection port to conveyor cover. Additional caulking may be required so that water will shed from the inspection port.

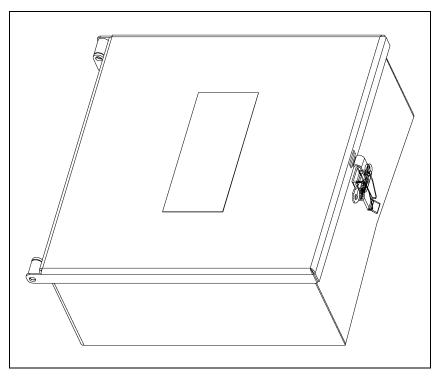


Figure 7A

#### **Plug Relief Door**

GSI Series 2 26" and 32" tall en-masse conveyors come equipped with a head discharge plug relief door as a standard feature. A NEMA 4 heavy duty limit switch is standard on the relief door.

However, in extremely dirty, dusty conditions and/or in enclosed environments, a NEMA 9 heavy duty limit switch should be used on the plug relief door. The NEMA 9 limit switch is available as an added option.

The optional NEMA 9 limit switch (GSI part # CE-00504) attaches to the same universal bracket on the front of the head assembly as the standard NEMA 4 limit switch. The same hardware is used for both limit switches.

**NOTE**: The limit switch bracket must be oriented as shown for proper engagement between limit switch and plug relief door.

Attach the bracket to the hood cover with two (2) 5/16" bolts and nuts where two (2) pre-punched holes are located. Two (2) pairs of pre-punched holes are provided on the removable head hood cover-one (1) pair on the left side and one (1) pair on the right side of hood cover. Next, use two (2) #10 machine screws, nuts and washers to fasten the limit switch to the bracket. The limit switch can be installed either to the left or to the right. Do not tighten these machine screws at this time.

Adjust the limit switch so that the actuator arm keeps sufficient tension against the plug relief door. After the limit switch is properly positioned, tighten the two (2) machine screws.

## **Plug Relief Door (Continued)**

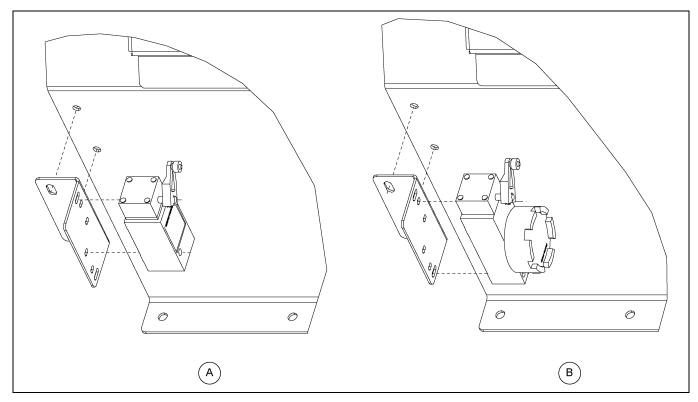


Figure 7B

Ref #	Description	
Α	Standard Plug Relief Door Limit Switch	
В	Optional NEMA 9 Limit Switch GSI (CE-00504)	

#### **Slack Chain Assembly**

The GSI Group offers a slack chain detector system as an option for its 26" and 32" tall series II en-masse conveyors. Depending on working conditions and/or environment, either a NEMA 4 or a NEMA 9 limit switch is available.

Begin installation of optional slack arm assembly by first cutting a 12" x 5" rectangular hole in the head section cover. (See Figure 7C on Page 20.)

Next, center the slack chain assembly over the rectangular opening. Mark the locations for the four (4) 7/16" diameter holes. Temporarily remove the slack chain assembly, and drill the four (4) 7/16" diameter holes.

Before attaching slack chain assembly to the conveyor, apply sealant to bottom surfaces of slack chain assembly.

Fasten slack chain assembly to conveyor with 3/8" hardware. See Figure 7C on Page 20 regarding direction of slack chain assembly on the conveyor.

After installation, check that the clearance between the UHMW paddle in the slack chain assembly and the UHMW flights on the chain is approximately 1/2" to 3/4". Adjust if necessary.

# **Slack Chain Assembly (Continued)**

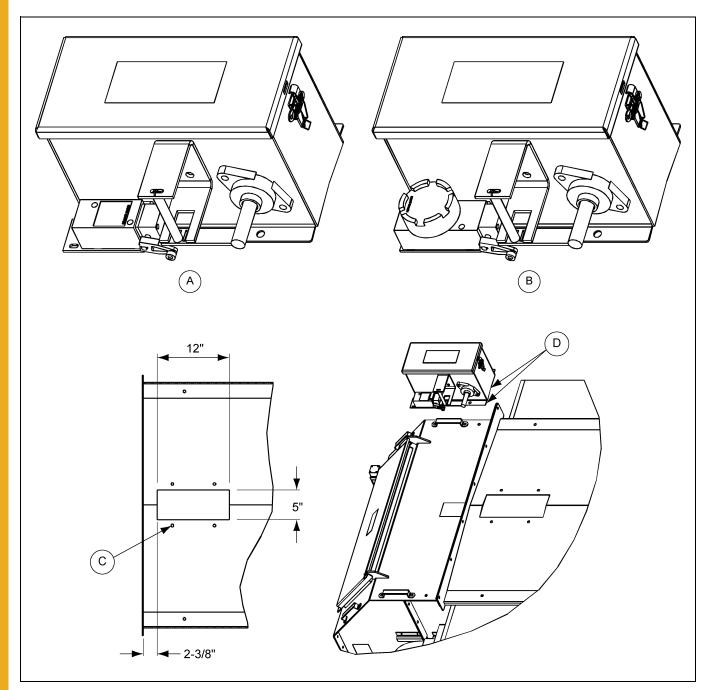


Figure 7C

Ref #	Description
Α	Top Mount Slack Chain with NEMA 4 Limit Switch
В	Top Mount Slack Chain with NEMA 9 Limit Switch
С	Ø 7/16" Typical
D	Apply sealant to underside all around before attaching to conveyor.

### **Carry-Over Bars - Reversing Conveyor**

For applications where the en-masse conveyor may run in a reverse direction, carry-over bars should be installed in the head assembly. These bars will ensure a smooth transition of the chain and flights from the head discharge into the conveyor box.

The carry-over bar package consists of four (4) carry-over bars, four (4) clips, and two (2) shims, plus the hardware necessary to attach these components within the head assembly.

Pre-assemble the two (2) pairs of carry-over bars and clips using the 3/8" bolts and nuts. Be sure to center the clips to the vertical slots on each end of the carry-over bars.

Next, place the pre-assembled pairs of carry-over bars in the head discharge as shown in *Figure 8A*. It is imperative that these carry-over bars be spaced so that they pick up the UHMW flights as shown in *Figure 8A*.

After the two (2) pairs of carry-over bars have been positioned, mark the locations for the eight (8) 9/16" diameter holes and drill. Attach with the 1/2" hardware provided.

After installation, check that the top edge of the carry-over bars does not extend above the top surface of the bottom plate.

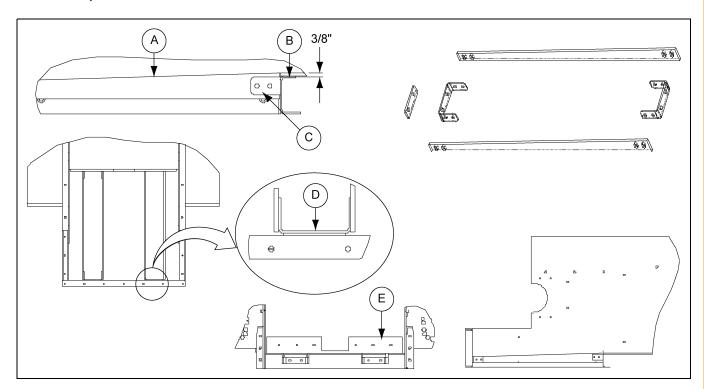


Figure 8A

Ref #	Description
Α	Carry-Over Bar
В	Top Surface of Bottom Plate
С	Clip
D	Place shim between this clip and end panel.
Е	UHMW Flight

## 9. Troubleshooting

#### **Troubleshooting Guide**

Problem	Cause	ause Solution	
	1. Improper chain speed.	1. Check the shaft RPM.	
Low capacity	2. Improper feed.	2. Check the grain level at inlet.	
	3. Plugging.	3. Check the discharges.	
	1. Loose UHMW paddles.	1. Check all bolts on chain.	
	2. Bottom are sides not aligned.	Check intermediate trough section joints and make flush.	
Noisy operation	3. Worn Drive Components.	Check oil level and shaft seals; belt misalignment; loose belts.	
	4. Worn sprocket.	4. Replace.	
	5. Return rail alignment.	5. Check rail alignment.	
	Conveyor misalignment.	Check the conveyor alignment.	
Uneven UHMW paddle wear	2. Sprocket slipped.	2. Check set screws on sprockets.	
	3. Return rail alignment.	3. Check rail alignment.	
Excessive carry-over	ccessive carry-over 1. Gates not fully opening. 1. Check the gate operation.		
	1. Worn chain.	1. Replace chain. (See Page 13.)	
Uneven sprocket wear	2. Improper alignment.	2. Check the sprocket alignment.	
	Material carry-over into discharge sprocket.	Check for improper location of inlet.     (See Page 12.)	

Consult the contractor for added assistance.

#### Limited Warranty — N.A. Grain Products

The GSI Group, LLC. ("GSI") warrants products which it manufactures, to be free of defects in materials and workmanship under normal usage and conditions for a period of 12 months from the date of shipment (or, if shipped by vessel, 14 months from the date of arrival at the port of discharge). If, in GSI's sole judgment, a product is found to have a defect in materials and/or workmanship, GSI will, at its own option and expense, repair or replace the product or refund the purchase price. This Limited Warranty is subject to extension and other terms as set forth below.

**Warranty Enhancements:** The warranty period for the following products is enhanced as shown below and is in lieu of (and not in addition to) the above stated warranty period. (Warranty Period is from date of shipment.)

	Product	Warranty Period
Storage	Grain Bin Structural Design  Sidewall, roof, doors, platforms and walkarounds Flooring (when installed using GSI specified floor support system for that floor) Hopper tanks (BFT, GHT, NCHT, and FCHT)	5 Years
Conditioning	Dryer Structural Design – (Tower, Portable and TopDry) • Includes (frame, portable dryer screens, ladders, access doors and platforms)	5 Years
	All other Dryer parts including: • Electrical (controls, sensors, switches and internal wiring)	2 Years
	All Non-PTO Driven Centrifugal and Axial Fans	3 Years
	Bullseye Controllers	2 Years
Material Handling	Bucket Elevators Structural Design	5 Years
	Towers Structural Design	5 Years
	Catwalks Structural Design	5 Years
	Accessories (stairs, ladders and platforms) Structural Design	5 Years

#### **Conditions and Limitations:**

THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE LIMITED WARRANTY DESCRIPTION SET FORTH HEREIN; SPECIFICALLY, GSI DISCLAIMS ANY AND ALL OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE IN CONNECTION WITH: (I) ANY PRODUCT MANUFACTURED OR SOLD BY GSI, OR (II) ANY ADVICE, INSTRUCTION, RECOMMENDATION OR SUGGESTION PROVIDED BY AN AGENT, REPRESENTATIVE OR EMPLOYEE OF GSI REGARDING OR RELATED TO THE CONFIGURATION, INSTALLATION, LAYOUT, SUITABILITY FOR A PARTICULAR PURPOSE, OR DESIGN OF SUCH PRODUCTS.

The sole and exclusive remedy for any claimant is set forth in this Limited Warranty and shall not exceed the amount paid for the product purchased. This Warranty only covers the value of the warranted parts and equipment, and does not cover labor charges for removing or installing defective parts, shipping charges with respect to such parts, any applicable sales or other taxes, or any other charges or expenses not specified in this Warranty. GSI shall not be liable for any other direct, indirect, incidental or consequential damages, including, without limitation, loss of anticipated profits or benefits. Expenses incurred by or on behalf of a claimant without prior written authorization from the GSI warranty department shall not be reimbursed. This warranty is not transferable and applies only to the original end-user. GSI shall have no obligation or responsibility for any representations or warranties made by or on behalf of any dealer, agent or distributor. Prior to installation, the end-user bears all responsibility to comply with federal, state and local codes which apply to the location and installation of the products.

This Limited Warranty extends solely to products sold by GSI and does not cover any parts, components or materials used in conjunction with the product, that are not sold by GSI. GSI assumes no responsibility for claims resulting from construction defects, unauthorized modifications, corrosion or other cosmetic issues caused by storage, application or environmental conditions. Modifications to products not specifically delineated in the manual accompanying the product at initial sale will void all warranties. This Limited Warranty shall not extend to products or parts which have been damaged by negligent use, misuse, alteration, accident or which have been improperly/inadequately maintained.

#### **Notice Procedure:**

In order to make a valid warranty claim a written notice of the claim must be submitted, using the RMA form, within 60 days of discovery of a warrantable nonconformance. The RMA form is found on the OneGSI portal.

#### Service Parts:

GSI warrants, subject to all other conditions described in this Warranty, Service Parts which it manufactures for a period of 12 months from the date of purchase unless specified in Enhancements above.

(Limited Warranty - N.A. Grain Products revised 01 October 2020)

This equipment shall be installed in accordance with the current installation codes and applicable regulations, which should be carefully followed in all cases. Authorities having jurisdiction should be consulted before installations are made.

GSIGROUP



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