



# **INSTRUCTION MANUAL**

## **TRUCK-MOUNTED CONVEYORS**

### **EXT-52 CONVEYOR FIBERGLASS SERIES XHDRTH-4000 TURNTABLE**

Cleasby Conveyors Inc. of Utah  
REV. 17.1 - OCT 2017



## PLEASE READ

The Following Signal Word Panels define signal words used in this manual. You must make yourself familiar with their meaning and application as it pertains to warnings and cautions provided in this manual. Please see ANSI Z535.6 for additional information.



**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.



**CAUTION**, without the safety alert symbol, is used to address practices not related to personal injury.



# IMPORTANT INFORMATION

The fact that the EXT-52 conveyor is partially produced and assembled from components of fiberglass and other traditional electrical non-conductive materials **MUST NOT BE ASSUMED AS A SAFE-GUARD** against inadvertent contact with a power line. You must exercise utmost care. There are many factors that influence the electrical conductivity of a structure such as the EXT-52 conveyor. In addition, **IT IS AGAINST FEDERAL AND STATE LAW TO POSITION THE CONVEYOR WITHIN TWENTY (20) FEET OF A POWER LINE. ALWAYS USE EXTREME CAUTION WHEN OPERATING THE CONVEYOR. See 29 CFR 1926.1400**

## **▲ DANGER**

- \* Risk of DEATH or SERIOUS INJURY if conveyor or load comes into Contact with or Proximity to Power Lines. ***It is against Federal and State Law to position the conveyor within twenty (20) feet of a power line.*** Always use extreme caution when operating the conveyor.
- \* Risk of DEATH or SERIOUS INJURY if conveyor or load comes into Contact with or Proximity to Power Lines. ***Never replace the hydraulic lines on the conveyor with substitution lines made with metal or rubber.*** Replace only with identical brand and type as installed as original equipment on the conveyor. Call Cleasby Conveyors for information (800) 453-2446 or (801) 773-1311 for additional information.
- \* Risk of DEATH or SERIOUS INJURY if conveyor or load comes into Contact with or Proximity to Power Lines. ***Never replace the conveyor belt except with the identical brand and type as installed as original equipment on the conveyor.*** Call Cleasby Conveyors for information (800) 453-2446 or (801) 773-1311 for additional information.

The Hydraulic lines employed on the conveyor are a special electrical non-conductive material. Their basic properties resist the flow of electrical current and thus make them poor conductors. The fact that the composition of the hydraulic line material makes it a poor conductor of electricity, **MUST NOT** be considered as a safeguard against contact with or proximity to Power Lines. Numerous possibilities of various contaminants in the hydraulic fluid carried in the lines make possible the conduction of electrical current along these fluid corridors. **THE HYDRAULIC LINES MUST NEVER BE REPLACED EXCEPT WITH AN IDENTICAL BRAND AND TYPE AS INSTALLED ON THE CONVEYOR.**

The belt used on the EXT-52 Conveyor is a special **electrical non-conductive belt**. Its' basic properties resist the flow of electrical current and therefore making the belt a poor conductor. The fact that the composition of the belt material makes it a poor conductor of electricity, **MUST NOT** be considered as a safeguard against contact with or proximity to Power Lines. **Dirt, Dust, Debris** or other contaminants or the presence of **Water or other Fluids** on the surface of the belt may alter or change its conductive characteristics with the result that it may become a **CONDUCTOR** of **ELECTRICITY**. The PVC material employed in the fabrication of the belt is a unique and special composition. **THE BELT MUST NEVER BE REPLACED EXCEPT WITH AN IDENTICAL BRAND AND TYPE AS INSTALLED ON THE CONVEYOR.**



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## WARNING AND CAUTIONS

- 1.) Since there are so many factors to consider, Cleasby Conveyors (CM) cannot possibly provide you with an exhaustive list of all conceivable hazards or problems that may arise while operating a conveyor. While so engaged, you accept a demanding set of responsibilities that cannot be delegated to another. You must be ever mindful of your responsibilities and care necessary to perform your duties safely. (CM) cannot anticipate and thus warn you against all possible hazards. Therefore, you must apply the warnings and instructions provided both in the owner's manual, video (DVD) (see below) and labels attached to the machinery in the broadest sense. Do not limit them to the particular situation or set of circumstances described or depicted.

The intended use of (CM) truck- mounted conveyors are to move a variety of roofing materials-**not people or equipment**, from the truck bed to an elevated location such as a rooftop.

**When you use the equipment for other than its intended purpose, hazards arise.**

Because of the nature and function of the equipment, some moving parts are always exposed without benefit of shield or guard. Use extreme care. **READ ALL WARNINGS AND WARNING LABELS,**

USE the truck-mounted conveyor unit **ONLY** for its intended purpose, and no other. Operate the equipment only after you have been thoroughly trained in its use, including viewing the safety video, **“Conveyors and Electricity Don't Mix”** (see page 1-6).

### PERSONS

- 2.) **Training prior to operating equipment.** Operate the equipment only after being thoroughly trained in its proper use, including reading the booklet and viewing the video provided “Conveyors and Electricity Don't Mix”. Since one type of conveyor unit may operate differently than another, **ONLY** operate equipment upon which you have received specific training. Training should include and anticipate both normal and emergency conditions. Users should be retrained in the safe operation of the equipment every six (6) months. If you have not operated the equipment within the past 60 days, retrain on the unit prior to using it.
- 3.) **Health/Physical Requirements.** Operate the conveyor and turntable only if you are free from health problems, or physical or mental limitations that might impair judgment or limit in anyway your ability to operate the equipment safely. Operator responsibilities typically include loading or unloading the conveyor with roofing materials. This activity requires a high degree of physical exertion. Accordingly, persons with health problems or physical limitations may unduly stress themselves, aggravate existing health conditions; and cause additional harm due the physical demands associated with this activity. In addition, such an operator may be placing others at risk.
- 4.) **Caution when lifting.** Use caution when lifting heavy objects. Failure to observe proper procedures and due care when lifting can result in bodily injury, including but not limited to, hernias and back stress. Wear a support belt.

- 5.) **Be careful.** Do not use the conveyor equipment in a careless or unguarded manner. Be aware of potential dangers that can, or do exist under particular operating circumstances, whether or not expressly identified by warning or instruction. Failure to exercise prudence and due care while operating the equipment is unsafe and hazardous.
- 6.) **Follow the operating instruction.** Follow the operating instructions with exactness.
- 7.) **Training before adjusting.** Only service or adjust the equipment if you have received appropriate training to do so.
- 8.) **Clothing.** Wear proper clothing when operating the equipment. Do not wear loose clothing, since it might get caught in the moving parts of the machinery. Also, wear appropriate personal safety equipment while operating the conveyor or turntable: i.e. steel-toed safety shoes (tennis shoes, or other shoes with a gripping tread, when working on the roof), hard hat and gloves, as necessary.

## CONDITIONS AND LOCATIONS

- 1.) **Truck Maintenance.** Maintain the truck upon which the conveyor unit is mounted according to manufacturer's recommendations. Repair or replace damaged or worn parts or equipment promptly.
- 2.) **Conveyor Maintenance.** Properly maintain the conveyor as described in Section Four, "Maintenance and Service Instructions" of this manual.

A red rectangular warning sign with a white triangle containing a black exclamation mark, followed by the word "DANGER" in white capital letters on a red background.

### **Risk of DEATH or SERIOUS INJURY if the Conveyor or Load comes in Contact with or Proximity to Power Lines.**

- 3.) **DO NOT OPERATE THE CONVEYOR NEAR ELECTRICAL POWER LINES.** It is against the law to operate the conveyor within twenty(20) feet of power lines. DO NOT OPERATE THE CONVEYOR IF POWER LINES ARE WITHIN THE SAFETY ZONE (see General Instructions, Section One). A good rule of thumb is to come no closer to a power line than the length of the conveyor, or in other words, 52 feet should be maintained between the conveyor and the nearest power line. If line voltage is unknown, keep sixty (60) feet away. If the conveyor comes close to, or in contact with power lines, both the conveyor and the truck will become charged with electricity. All power lines carry enough current to kill you and anyone who is in contact with or near the conveyor or the truck.
- 4.) **Truck Positioning.** Position the truck on firm, level ground. This makes pivoting the conveyor as easy as possible. Make sure the truck is stable before releasing the conveyor boom from its resting position on the rack mounted to the truck; and before operating the conveyor. The truck will not be stable if it is on a pile of dirt, soft or unstable ground or other non-uniform support. If the truck is not stable, it may tip or lean during conveyor operation resulting in loss of control

- 5.) **Truck Wheels.** Block truck wheels to prevent rolling. The transmission will not help because it must be in “neutral” to power the conveyor hydraulic system.
- 6.) **Outriggers.** Deploy the outriggers (which are attached to the truck frame), firmly to the ground in order to aid in stabilizing the truck against rollover.

**NOTICE** BELT WILL NOT ENGAGE IF OUTRIGGERS ARE NOT DEPLOYED.



**VEHICLE ROTATION HAZARD, RISK OF FALLING OR OTHER SERIOUS INJURY. DO NOT OPERATE ON UN-LEVEL SURFACE. USE OUTRIGGERS.**

- 7.) **Inspect Job Site** carefully before repositioning the conveyor. Be aware of equipment, workers, or other people on the ground, by the building or on the roof who may be affected in any way by the movement or operation of the conveyor.
- 8.) **Keep truck and conveyor clear** of trees, scaffolding, earth overhangs etc. If you bump them they could fall on something...or someone.
- 9.) **Operating in Wind.** Do not operate the conveyor in windy conditions. That means: if there is a brisk breeze, do not operate. In windy conditions, store the conveyor boom securely over the truck cab, and park the truck in a sheltered area.
- 10.) **Altering Equipment.** Do not alter the safety characteristics of the conveyor or turntable. Do not remove or modify any guards, safety valves, pressure relief valves, etc.

- 11.) **Wet Conditions.** If your conveyor is powered by an electric motor, operate only when dry. Water on the truck bed, conveyor or the ground increases the risk of electrocution.



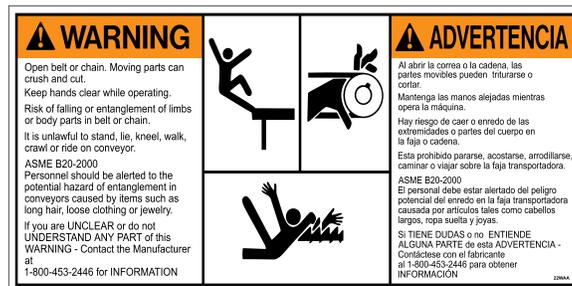
**USES**

- 1.) **Transport Only Materials.** The sole purpose of the conveyor is to transport materials, not people. Using the conveyor for any other purpose poses hazards (see relevant Warning labels herein and as displayed on equipment).
- 2.) **Conveyor is not a Ladder.** Do not use or allow anyone else to climb on the conveyor or use it as a ladder to reach a roof or other elevated location.
- 3.) **Running Conveyor.** Do not ride, stand or sit on a running conveyor, or allow anyone else to.

- 4.) **Valves and Handles.** Do not use the hydraulic valves and handles as steps or rests to bear the weight of any materials or people. Such abuse may damage the valves and impair their function, creating a hazardous condition.
- 5.) **Conveyor is Not a Crane.** Do not use the conveyor as a crane to pick-up and lift, or rotate any objects or people.
- 6.) **Weight Limits.** Note and observe weight limits and load capacities of each conveyor. Each conveyor has a weight limit/load capacity of 100 lbs. (pounds). per flight (cleat). that means if four (4) flights are showing on the top side of the conveyor at any one time, the load capacity is 400 lbs., to be distributed at no more than 90 lbs. (pounds) in front of any given flight. Operating the conveyor with loads in excess of safe limits is hazardous

## OPERATION

- 1.) **Do not operate the equipment until you have set-up an operating SAFETY ZONE around the truck and equipment, (see General Instructions, Section Two, and Figure 1-1, Page 1- 7). Always review operating instructions, decals and written brochures before attempting to operate the equipment.**
- 2.) **Missing Safety Device.** Do not operate the conveyor if it is missing any guard, or other safety device.
- 3.) **Hands and Arms.** Do not reach through any piece of equipment for any reason, whether it is in operation or not.
- 4.) **People Around Boom.** Never allow anyone to stand under the boom, whether it is operating or not. Maintain the SAFETY ZONE. Be especially watchful while raising, lowering or rotating the conveyor.
- 5.) **Unauthorized Personnel.** Do not let unauthorized and untrained individuals, especially small children, on, near or around the equipment.
- 6.) **Training before Operating.** Do not attempt to use the conveyor equipment unless you have been fully trained in its proper use and operation.
- 7.) **Training on Turntable Controls.** Do not attempt to raise, lower or rotate the boom, or run the belt on the turntable- mounted conveyor unless you are familiar with the hydraulic valves, control handles and functions.
- 8.) **Unobstructed View.** Operate the conveyor only when your view of the conveyor and the surroundings is complete and unobstructed. It is recommended that a “spotter” be used to watch the equipment as you move it.



**NOTICE**

The EXT-52 maintains a deployable load bearing column member integrating a feature based, swivelly connected foot rest aspect which properly deployed, activates a sensing device which by attaining minimum threshold force by reason of the nose of the conveyor being brought to rest upon the roof surface—the placement thereby secured, triggers a force sensing load cell instrument, releasing a load limit switch bar. Absent appropriate rest repose of the nose feature column element, the system fails to detect sufficient support; and otherwise disallows conveyor operation.

It is imperative prior to attempting operation, that the column/foot feature **MUST FIRST** be deployed and securely brought to bear by its natural bearing/distribution upon a structurally sufficient roofing segment or member suitable to resist weight distribution of an analogues two point, simply support beam member—which by application, the noted segment comprises a de facto bearing support of an equivalent simply support beam by analogy here employed.

The column/foot element must of necessity be deployed and sufficiently activated in order to free the system of fail-safe arrests which otherwise are defeated by achieving minimum force threshold values by deployment; and fulfilling a necessary vertical load component applied to the nose of the conveyor.

DO NOT deactivate or otherwise attempt to defeat the sensing system. To do so will invalidate all warranty coverage provisions.

- 9.) **Center the Controls.** Always inspect the hydraulic controls to make sure they are in the center, or “neutral” position before engaging the P.T.O.
- 10.) **Moving the Truck.** Do not move the truck while the conveyor is in a raised or working position.
- 11.) **Unload Evenly.** Unload the material off the truck evenly. If too much weight is on one side of the truck bed or the other, the truck can tip over on its side, especially when rotating the conveyor boom.
- 12.) **Use your head.** Review and follow all operating instructions, warnings and cautions contained in the various instructions, warnings and labels, video and manuals.

## **CLEASBY MANUFACTURING OF UTAH, INC. FULL WARRANTY**

### **WHAT IS COVERED:**

The Warranty covers any and all defects in material and workmanship not to include nominal wear and tear or lack of maintenance.

### **HOW LONG COVERAGE LASTS:**

One (1) year from the date of purchase.

### **WHAT WILL CLEASBY MANUFACTURING DO?**

Under this Warranty, Cleasby Conveyors (CM) obligation is limited to repairing or replacing, at (CM)'s discretion and at no charge, any part of the product that by examination, (CM) determines to be defective.

### **WHAT DOES THIS WARRANTY NOT COVER?**

The Warranty does not cover components or parts not manufactured by (CM); such as engines, belts, batteries, tires, hydraulic hoses, and motors etc. (See individual Warranties. (CM) will insofar as possible, provide assistance to facilitate a remedy with supplier companies). Further, all damages traceable to abuse, misuse, or an act of God (such as a flood) and/or consequential and incidental damages are not recoverable under this warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages, accordingly, the above limitations or exclusions may not apply to you.

### **HOW TO GET SERVICE:**

(CM) requires that you accompany all returned merchandise by an RMA (Return Merchandise Authority) number. Your local dealer or distributor can aid you in securing Warranty replacement and service. If you do not have a representative in your area, you may contact the factory directly, at:

**Cleasby Manufacturing of Utah, Inc.  
362 South Main  
Clearfield, Utah 84015  
(801) 773-1311**

Repair or replacement, FOB Clearfield, Utah, USA.

### **YOU'RE RIGHTS UNDER STATE LAW:**

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

# **SECTION ONE GENERAL INSTRUCTIONS**

## **TRUCK-MOUNTED CONVEYORS EXT-52 FIBERGLASS CONVEYOR TURNTABLE AND XHDRTH-4000**

<b>GENERAL INSTRUCTIONS</b>	<b>1-10</b>
<b>TRANSPORTING AND POSITIONING</b>	<b>1-11</b>



**362 South Main, Clearfield, UT 84015  
801-773-1311 \* 800-453-2446 \* Fax 801-773-3249**

Cleasby Conveyors (EXT REV 17.1 - October 2017)



## IMPORTANT INFORMATION

**This section contains special instructions and information for the EXT-52 fiberglass roofing conveyor that you MUST KNOW.**

It is essential that all **Warnings, Cautions and Instructions** noted in the written or video format be applied in the broadest sense. You should pay particular attention to the Warnings Pertaining to Power Lines and associated DANGERS with Contact or Proximity of the conveyor to the same. The fact that the EXT-52 conveyor is made-of fiberglass does not mean that if the conveyor comes in contact with or proximity of a power line that you would be safe. **It is against the law to come within twenty (20) feet of any power line whether you are using a metal or fiberglass conveyor.** There are many factors that determine if a conveyor may become a conductor of electricity, even if the conveyor is made of fiberglass. Always use **EXTREME CAUTION**. Review all warnings and safety labels for the conveyor, turntable and truck as often as possible. Review the **Safety Video (DVD) and Safety Video Booklet titled: “Conveyors and Electricity Don’t Mix”**. The video tape and booklet are free simply by calling this **toll free number (800) 453-2446**.

The fiberglass of the conveyor should be carefully inspected from time to time to make certain it is clean from oil, dirt, grime and debris of other forms that may accumulate on the conveyor surface. The accumulation of these substances on the surface of the fiberglass tends to increase the conductivity of the conveyor independent of the fact that the basic structure is composed of fiberglass. The debris noted provides an avenue for conduction of electricity. Therefore, keeping the conveyor clean helps to prevent the flow of electricity if the conveyor were to come in contact with or proximity to a power line.

The hydraulic lines employed on the conveyor are a special electrical non-conductive material. Their basic properties resist the flow of electrical current and thus make them poor conductors of electricity. The fact that the composition of the hydraulic line material makes it a poor conductor of electricity, **MUST NOT** be considered as a safeguard against contact with or proximity to power lines.

Numerous possibilities of various contaminants in the hydraulic fluid carried in the lines make possible the conduction of electrical current along these lines. **THE HYDRAULIC LINES MUST NEVER BE REPLACED EXCEPT WITH AN IDENTICAL BRAND AND TYPE AS INSTALLED ON THE CONVEYOR.**

The belt used on the EXT-52 Conveyor is a special electrical non-conductive belt. Its' basic properties resist the flow of electrical current and thus make it a poor conductor. The fact that the composition of the belt material makes it a poor conductor of electricity, **MUST NOT** be considered as a safeguard against contact with or proximity to Power Lines. **Dirt, dust, debris or other contaminants or the presence of water or other fluids on the surface of the belt**, may change its conductive characteristics, with the result that the belt may become a CONDUCTOR of ELECTRICITY. The PVC material employed in the belt is a unique and special composition. **THE BELT MUST NEVER BE REPLACED EXCEPT WITH AN IDENTICAL BELT that MUST BE ORDERED from Cleasby Conveyors [(800) 453-2446 or Fax (801) 773-3249].**

# GENERAL

These instructions cover the general operation of truck-mounted conveyors. A specific conveyor may have options that require different operating procedures. Accompanying this manual is a safety training video provided as an aid in training operators. **The video is a crucial part of the training. Please watch the video and read the booklet “Conveyors and Electricity Don’t Mix”.**

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**TO THE OPERATOR:** This manual is written for you. Knowing what is in it could possibly save your life or the life of others, and provide you with information to protect you from injury. Read it carefully. OPERATE the conveyor ONLY AFTER you have received thorough TRAINING (including the safety video) in its safe operation.

**TO THE OWNER:** Cleasby Conveyors (CM) has prepared this manual to aid you in the training process. YOU ARE RESPONSIBLE FOR making sure that your employees understand the proper operation of the equipment; and how to use it SAFELY. Instead of simply telling your employees to read the instructions, take them out and make SURE they understand and use the equipment properly. Make sure they watch the safety video. If you have any questions whatsoever concerning these instructions or any matters not covered herein, PLEASE CONTACT your local dealer or distributor, or call Cleasby Conveyors directly.

CM recommends that following initial training, workers receive PERIODIC REVIEWS of operating and safety procedures. Your regular monthly safety meeting is a good time to have this review.

**Please read and refer to OSHA Standard -- 29 CFR 1926.1400**

## TRANSPORTING AND POSITIONING

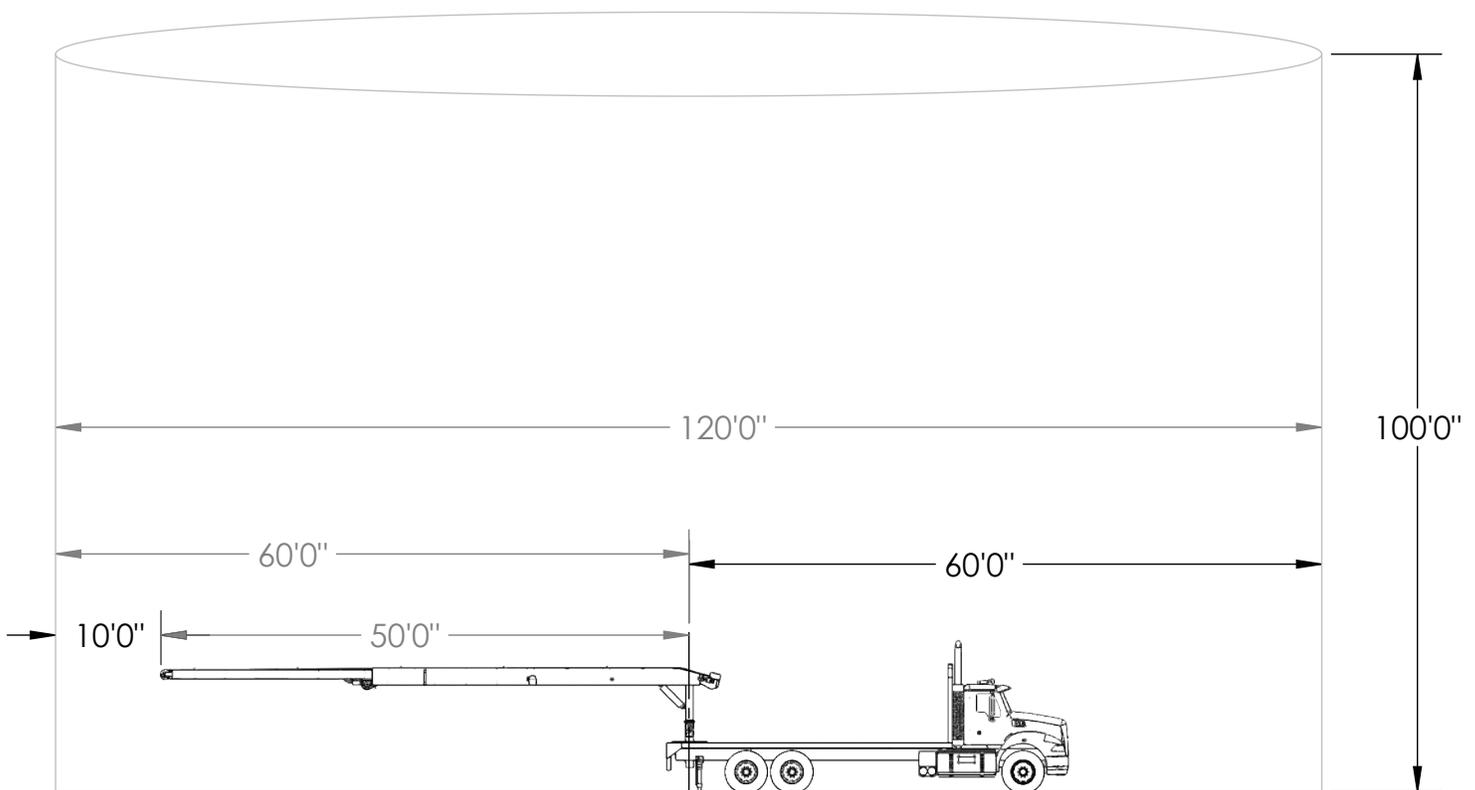
- 1.) Review the warning labels (see Section One herein) and conduct recommended daily visual inspection of the unit prior to leaving the yard (see Section 4-1). Make sure to secure the conveyor boom to its support on the headboard of the truck. Examine the conveyor service record periodically to insure that maintenance personnel are following the recommended service and maintenance program.
- 2.) Before moving the truck, elevate the turntable post until the conveyor is resting parallel with the truck bed. There are two reasons for this, first, the lower the turntable post, the higher the nose end of the conveyor; thus, if the turntable post is too low, the nose end of the conveyor may be too high to get under bridges and other overhead structures. Second, if the post is too high, the nose-end of the conveyor may be slanting down and obstructing the view of the driver.
- 3.) Observe all traffic rules when driving to and from the job site. Observe height limitations at all bridges and overhead structures. When making turns, remember that the conveyor boom may overhang the truck unit both front and rear.



- 4.) At the job site, secure a location for the truck that will satisfy the requirements for creation of a **SAFETY ZONE** (see Figure above). Additionally, take into account other safety factors including requirements that the truck be positioned on firm, level ground. This will aid in stabilizing the truck/conveyor system and facilitate rotation of the conveyor boom. See **29 CFR 1926.1400**.
- 5.) Block the truck wheels to prevent rolling. Please note that the truck transmission is not available to aid as a break, inasmuch as the transmission must be placed in “neutral” in order to power the conveyor hydraulic system.
- 6.) Set up the **SAFETY ZONE** around the truck as depicted in Fig. 1-2 above by use of ropes, barricades or other suitable means. Think of the **SAFETY ZONE** as a giant tin can, wide enough

to allow for an additional twenty (20) feet in all directions surrounding the truck and twice as tall as the height of the conveyor if it were positioned vertically (directed straight-up). For example, if your conveyor is 50 feet long, the diameter of the can would need to be twice the length of the conveyor plus the extra ten feet as noted, resulting in a diameter of 120 ft. of the imaginary tin can. The height would necessarily be a full 100 ft. (see fig. 1-2 below). The same safety zone for a 40 ft. conveyor would correspond to a base of 100 feet and a height of 80 ft.

**It is vitally important that you read and understand elements of relevant controls as articulated in OSHA Standard 29 CFR 1926.1400 regarding establishment of a safety zone and mandatory safe operation distances from power lines of various voltage.**



- 7.) Clear the **SAFETY ZONE** of equipment, observers and uninvolved people.
- 8.) Visually inspect the **SAFETY ZONE** area to locate items you cannot move, and to observe the location of any **POWER LINES**. **DO NOT** operate the conveyor if any power line(s) are within the **SAFETY ZONE**. If you cannot find a location where power lines do not intrude within the **SAFETY ZONE** or where the ground is firm and level, **DO NOT USE THE CONVEYOR**. See **29 CFR 1926.1400**.
- 9.) Once you have set-up a **SAFE** operation **ZONE**, lower the outriggers (which are attached to the truck frame) firmly to the ground and lock them in place.

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**⚠ WARNING**

**Vehicle Rotation Hazard, Risk of Falling or other Serious Injury. Do Not Operate on Unlevel Surface. Use Outriggers.**

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- 10.) You shall provide a dedicated spotter who's sole responsibility is to watch separation distance between any power line and the equipment, see 29 CFR 1926.1400 to keep a sharp lookout while you are moving the conveyor boom for anything or anyone that comes within the **SAFETY ZONE** and to warn you of any impending dangers.
- 11.) Slowly lift the conveyor boom from its position over the truck cab to a height well above the roof upon which you intend to rest it (the maximum safe height is about seventy degrees from horizontal).
- 12.) Carefully rotate the boom to the point of delivery; then, slowly lower the boom until the support foot is resting firmly on the roof surface.
- 13.) Always support the nose of the conveyor while the conveyor is in use. The support foot on the nose end of the conveyor rests on the roof surface and aids to steady the conveyor.
- 14.) After unloading the material, check the **SAFETY ZONE** again and clear it before moving the conveyor. When you know the **SAFETY ZONE** is clear, raise the conveyor boom high enough to clear the side of the building (structure) and the edge of the roof (the maximum safe height is about seventy degrees from horizontal), and slowly rotate the conveyor into its traveling position over the cab. Lower the boom slowly and carefully into it resting saddle. Lowering the boom too quickly can damage the truck cab, the conveyor boom or both. Once you have lowered the boom, secure it in place before moving the truck.
- 15.) If your company operates more than one truck-mounted conveyor unit, (CM) strongly recommends that you stay with one specific unit (i.e. that crew assignments not be rotated among the various units). This is especially important if the trucks in the fleet are mounted with conveyors of different lengths. Different trucks and conveyors operate and respond differently, even under seemingly identical conditions.



# SECTION TWO

## MOUNTING INSTRUCTIONS

### TRUCK-MOUNTED CONVEYORS EXT-52 FIBERGLASS CONVEYOR TURNTABLE AND XHDRTH-4000

<b>GENERAL</b>	<b>2-1</b>
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Warning Labels and Safety Devices	2-8
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Cleasby Conveyors (EXT REV 17.1 - October 2017)



## GENERAL

The following instructions describe a step-by step process for mounting the conveyor and turntable. (CM) recommends that an experienced installer professionally mount your conveyor and turntable. With proper mounting, you may anticipate many years of reliable service. Conversely, improper installation may damage the equipment and actually make it hazardous to operate.

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**NOTE:**

**Cleasby Manufacturing STRONGLY Recommends installing truck-bed outriggers on all trucks carrying truck-mounted conveyor units**

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The quality of construction of the truck bed and method of attachment of the bed to the truck frame are important factors underlying a quality installation. On the contrary, an improperly constructed or mounted truck bed will usually give poor service, and may in fact shorten useful life. Moreover, such compromised fabrication may damage the conveyor and /or turntable and make them hazardous to operate.

### **PARTS SUPPLIED BY (CM)**

(CM) completely assembles, aligns and tests each conveyor and turntable at the factory prior to shipping. In addition, each turntable is painted with a high- visibility, weather-resistant paint for protection. Each unit is furnished, fully equipped with all necessary parts. (CM) also provides WARNING LABELS that MUST be placed in the cab and bed of the truck on which the conveyor and turntable are to be mounted.

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**NOTE:**

**Cleasby Manufacturing is not responsible for any loss or damage resulting from improper installation of either the truck bed or the conveyor and turntable**

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The turntable is mounted on a pallet and shipped, fully equipped with all necessary valves, fittings and hydraulic hoses.

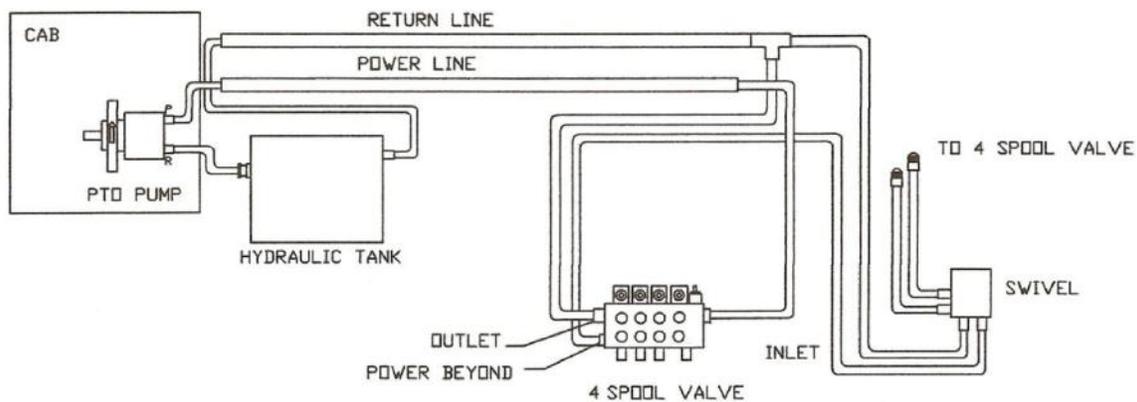
(CM) provides in addition, a piston-type hydraulic pump, oil storage reservoir, and all mounting bolts to secure the turntable to the truck bed.

The installer may choose to use a different pump and oil reservoir. Substitution is acceptable, if the capacities and pressures match with those of the overall system. These instructions describe the procedures for mounting (CM)'s standard package. The mounting may vary somewhat with a different pump system.

(CM) ships the outrigger package with the outriggers completely assembled and fastened to a pallet. (CM) also includes a five-spool hydraulic valve and valve mounting bracket in the set.

## EXT TRUCK AND OUTRIGGER HOSE SCHEMATIC 07-01-17

THIS ILLUSTRATION IS  
CLOCKWISE ROTATION

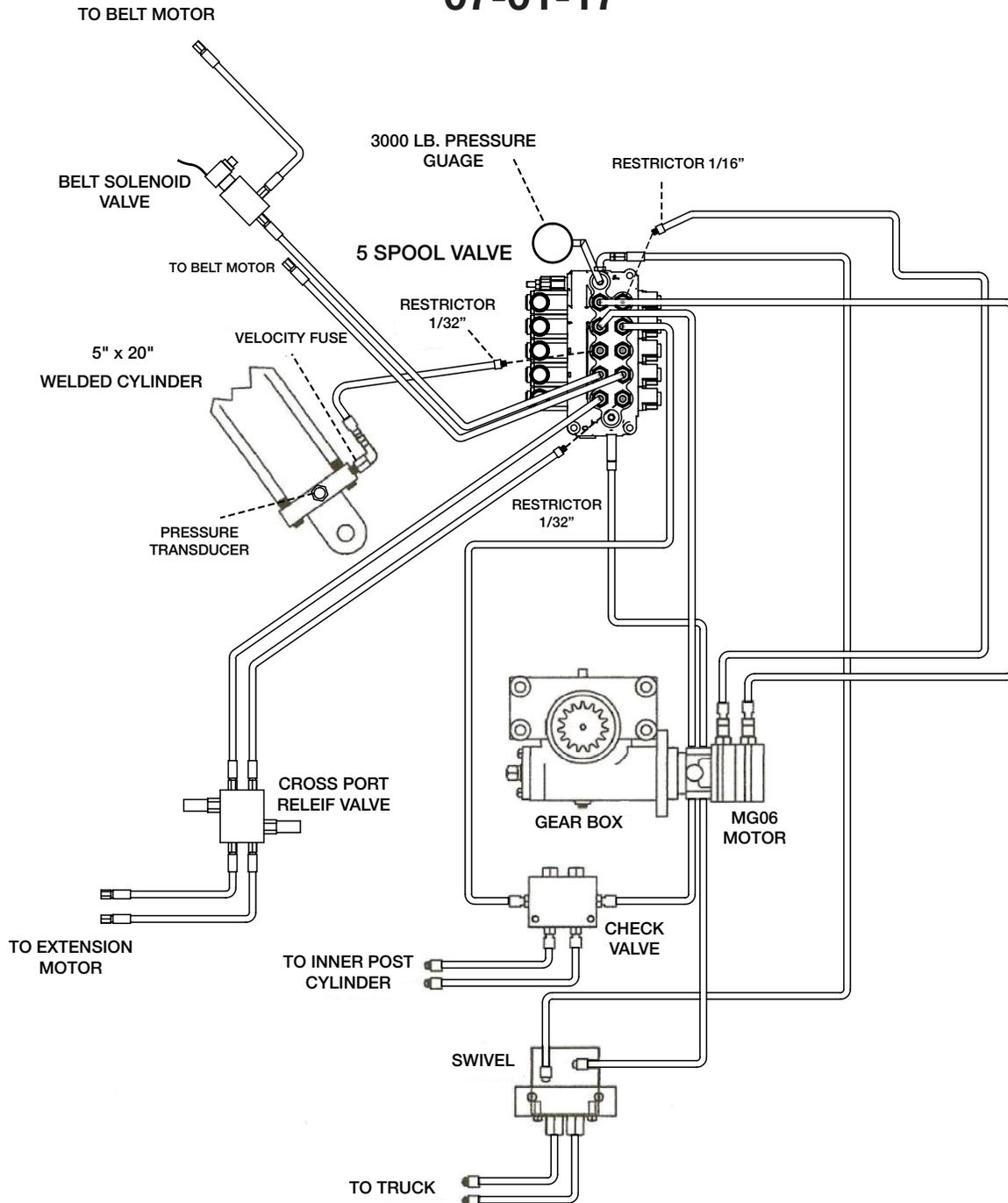


### NOTE:

IF THE TRANSMISSION IS CLOCKWISE ROTATION  
THE PRESSURE IS THE RIGHT PORT  
IF THE TRANSMISSION IS COUNTERCLOCKWISE ROTATION  
THE PRESSURE IS LEFT PORT

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# EXT TURNTABLE HOSE SCHEMATIC 07-01-17



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## PARTS TO BE SUPPLIED BY THE CUSTOMER OR INSTALLER

Because of the diversity in trucks and installations, there are certain parts (CM) does not supply. These include the P.T.O. and all necessary fittings to connect the pump to the truck transmission.

The turntable comes with hydraulic hoses; however it may be necessary to acquire additional hosing in order to connect the pump. Additionally, (CM) does not supply hosing to connect the outriggers and outrigger control valves. Certain other small parts and fittings are to be acquired by the customer or installer.

---

## INSTALLATION PROCEDURE

(CM) recommends the following installation procedures. Please note advisories that will assist you in the process.

### MOUNTING THE TURNTABLE

1.) Securely mount the oil reservoir unit underneath the truck bed and attach to the frame. This will ensure a sufficient resistance to forces arising out of operation of the pump and corresponding torque production. Allow adequate clearance between the top of the reservoir and the truck bed to permit access to the reservoir for filling with hydraulic oil.

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**GPM 6-8 gallons** for pump and reservoir

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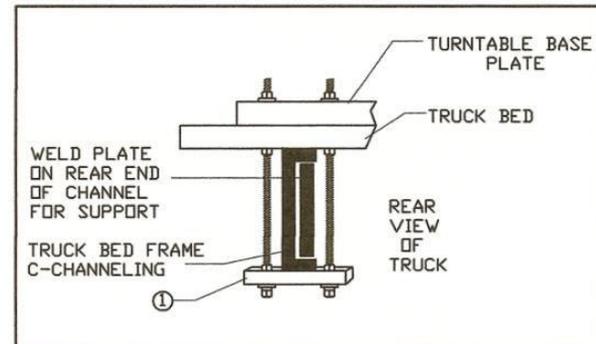
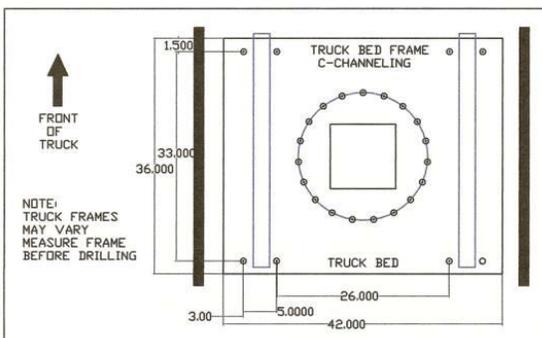
### Operating Pressure Setting - 1800 psi

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- 1.) Connect the pump to the customer purchased power take-off (PTO) and the truck transmission. The PTO needs to be rated minimally at 85% of engine speed and not to exceed 110%. Alternatively, the truck engine RPM should run between 700 to 800 RPM and not to exceed 1000 RPM. Please check the pump for proper rotation direction before installing.
- 2.) Mount the turntable centered at the rear of the truck bed. It is most important that the turntable is securely mounted to the truck frame (not just the truck bed). It has been our experience that the following method for mounting has proven effective.
  - a.) Cut a 34" long x 30" wide hole in the bed of the truck positioned so as to lie equal distant between the frame rails. In the case of mounting the RTH series turntable, make certain that there is clearance around the truck and bed frame for the rotation motor to freely rotate in full circle (i.e. 360 degrees) without obstruction. It may be necessary to notch out a small portion of the frame work to allow the motor to rotate.
  - b.) Position the turntable base plate to ensure that the turntable post is centered relative to the square hole cut in the bed of the truck. Concurrent with establishing center line position, ensure that the edges of the base plate are parallel with the sides of the truck bed.
  - c.) Referring to Figure 2-1, drawing (1), note that this view depicts hole pattern dimensions consistent with most truck frames. **A Note of Caution:** prior to drilling the bolt holes, measure the truck frame to make certain that the actual dimensions of the truck frame are in fact consistent with values

depicted in the drawing. If they are not, adjust the hole pattern dimensions accordingly.

- d.) Given proper positioning of the turntable, drill the bolt holes with a 13/16 inch diameter drill bit through the base plate and truck bed.
- e.) Place the bolts in paired holes with washers, lock washers and nuts on the upper surface of the base plate. The bolts should be positioned an equal distance from either side of the “C-Channel” of the truck frame as viewed from below the truck bed. With the bolts properly positioned, the channel support members are ready to weld.
- f.) Align the channel support members with the outer edge with the mounting block. The support members should be properly marked for reference for correct installation. Remove the bolts and mounting block and weld.
- g.) Install all bolts, washers, lock washers and nuts.
- h.) Initially establish a finger-tight fit and proceed with the following tightening pattern. Each pair of bolts constitutes a single station. At completion of the procedure, the bolts should be torqued to 225 (+/- 5-ft.-Lbs.). Select one of the four stations and tighten both paired bolts to 75-ft.-lbs. Continuing, move to the station located diagonally across from the first station and tighten these bolts to 75 ft.-lbs. Now, tighten the remaining paired bolts in the alternate corner stations to 75 ft.-lbs. Use this same sequence through two additional stages i.e. 150 ft.-lbs. and finally, 225 ft.-lbs.



## MOUNTING THE CONVEYOR

- 1.) Attach the saddle feature of the conveyor mount to the turntable post (see Fig. 2-3). This is accomplished by inserting the steel pivot pin (1 1/2 inch diameter by 14 3/4 inch length, provided with your installation kit) through the pivot ears on the saddle feature of the conveyor and the hub stock on the top of the turntable post. Next, insert the one (1.0) inch diameter pin through the clevis on the end of the hydraulic cylinder and the ear welded on the fore section of the saddle cross member. Lubricate the pins and make sure all washers and cotter pins are in place. Make sure the clevis nuts are tight.

## CONNECTING HYDRAULIC HOSES

- 1.) 1.) You may now connect the hydraulic hoses to the turntable.
- 2.) 2.) Connect the two ½ inch hoses attached to the detente (locking) valve, to the hydraulic lines on the bottom of the conveyor (use Teflon tape or other suitable sealer). All other hydraulic lines have been previously connected at the factory. Observe that the orientation of the lines is such that when the valve handle is pushed forward, the belt moves forward, and in reverse, when the handle is pulled to the rear (the forward, or “up” valve direction is toward the conveyor lifting cylinder attached to the post). Switching the hoses will not cause any damage; however, if the conveyor does not run in the correct direction (as set forth supra, i.e. according to the valve position), reverse the hoses. When not in use, all hydraulic functions must be positioned in either the “neutral” or “off” position.

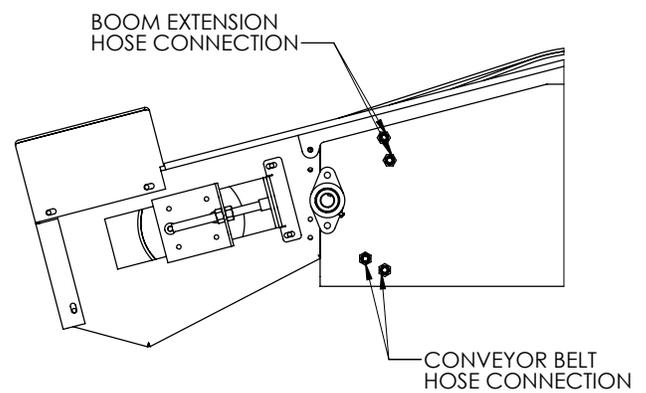
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### NOTE:

**Outrigger hydraulic function-please refer at this time to Section Seven for proper procedures and installation instructions**

---

- 3.) Locate the two (2) ten (10) foot hydraulic hoses (the power and return lines) and connect them to the pump and reservoir respectively. The extension should be ½ inch ID (inside diameter) hydraulic tube or two-wire braid hose rated for at least 2000 PSI. Now, attach the power line hose to the pressure port of the pump. The power line hose is connected to the top of the valve bank attached to the turntable post (be sure to use a good grade of thread sealer). The return line is connected to the lower pressure port of the pump and to the IO hose originating from the bottom of the hydraulic valve, located on the post.



- 4.) Tighten all fittings and hose connections. All turntables are pressure- tested and checked for leaks at the factory, prior to shipping. Sometimes, however, vibrations experienced in transit can cause the fittings to loosen which may result in leaks. The hydraulic reservoir, mounted under the truck bed, should be filled with a good grade of heat resistant oil such as Conoco # 46.
- 5.) When the EXT-52 Fiberglass Conveyor is positioned in the conveyor rack, there is direct pressure applied to the lower surface of the side panels of the conveyor at the point of contact. To prevent damage from occurring at this point of high specific stress, it is recommended that you place a strip of wood or rubber in the base of the rack to act as a buffer. Be sure to mount by bolting the “U”-shaped metal frame marked “Important” which is attached to the conveyor prior to shipping. This “U”-shaped frame protector will prevent the fiberglass channel from being damaged each time the conveyor is raised or lowered from the head board of the rack.

## BLEEDING THE SYSTEM

- 1.) Start the truck engine and engage the PTO with the engine running at idle. Run the engine for a few minutes to warm-up the oil. Then engage the hydraulic motor on the conveyor in both directions (fore and aft) to expel air from the system. Run all other hydraulic functions (except swing) in both forward and reverse directions to likewise discharge trapped air in the system.
- 2.) Take special care when bleeding the hydraulic swing function. Gently feather the flow with the valve through the rotation motor until the oil has completely circulated through the circuit. Repeat in the reverse direction.

## WARNING LABELS AND SAFETY DEVICES

- 1.) There are a variety of warning labels, cover guards, safety valves, restrictors and other safety devices installed on the conveyor and turntable for your protection. For instance, the Velocity Fuse Valve (part #12COB) connected to the conveyor lifting cylinder part (prevents the conveyor boom from falling when elevated, in the event of a hydraulic hose or connection failure.). **DO NOT remove any warning labels or safety devices.** If a hydraulic function does not operate properly, check for plugged ports, and determine if the safety valves or restrictors require cleaning. If these steps fail to resolve the difficulties, contact your local dealer or call (CM) for assistance.
- 2.) The hydraulic system has various pressure relief valves to prevent damage from excess pressure. These relief valves are of a type that are non-adjustable, and pre-set at the factory. **DO NOT** alter or modify in any way. The system operating parameters established via these valves is sufficient and proper to operate the conveyor and turntable.

---

### NOTE:

**The turntable has installed within the hydraulic system a cross-port relief manifold (4"X4 ½ ") which contains two (2) Restrictors pre-set to a flow rate maximum of two (2) gallons per minute (gpm). DO NOT remove these manifold restrictors.**

### NOTICE

Operating the unit at excessive pressure will cause damage to the equipment and void the warranty.

---

---

## FINAL INSPECTION AND ADJUSTMENTS

- 1.) Hydraulic oil level should be checked with the conveyor in the down position and filled as necessary.
- 2.) Check and adjust the alignment and tension of the belt as necessary.
- 3.) Inspect the conveyor and turntable to make certain that all warning label decals are in place (see Section Seven). If any decal(s) is missing, or damaged, contact the dealer, distributor, or service center or (CM), or in the event the SAFETY VIDEO and/or pamphlet “**Conveyors and Electricity Don’t Mix**” is missing, call (CM) at our toll- free number **(800) 453-2446** for replacement. Attach the special Warning Decals (WARNING LABELS/DECALS) included with these instructions as directed in Section One, WARNINGS AND CAUTIONS, Paragraph “Labels to be Placed by You or Your Installer”, sub-paragraphs 1 & 2. As there noted, Warning Label 24AR must be attached to the dash of the truck so as to be in clear view of the operator; and, five (5) Warning Labels as noted supra, must be attached to the side of the truck bed, around its perimeter.
- 4.) Equip the truck bed with a support rack on top of the back board on which to rest the conveyor when it is not in use. Also include a tie-down strap to this rack.

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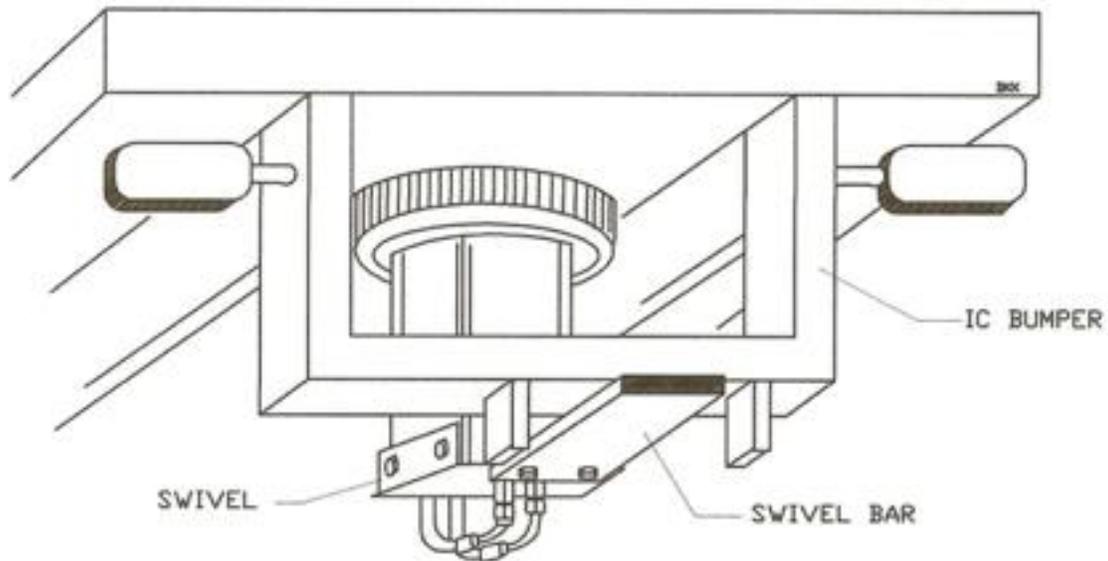
### NOTE:

**Operating or service pressures vary depending upon load input on the system. Actual running pressure should be no more than 1800 psi. For example, an empty belt will only pull or place a demand on the system in the range of 400-500 psi, while post operation will require 2000 psi. The relief pressure is factory set at 2000 psi and can be tested by running the post down to its full retracted position; and concurrently maintaining the handle in the down position. The gauge should then read 2000 psi.**

---

- 5.) If the conveyor extends beyond the front bumper of the truck, provide some sort of support possibly fastened to the front bumper for the conveyor to rest on while in transit.
- 6.) Recheck the tightness of all bolts and nuts throughout the turntable and its mounts, in addition to those of the conveyor. Check for oil leaks.
- 7.) The conveyor and turntable were partially lubricated at the factory. It will therefore be necessary to fully lubricate the unit prior to placing in service. Raise the post and generously apply grease on all operating surfaces. Then lower the post and wipe off the excess grease from the top edge of the outer post. Also grease the turntable at the various lubrication points (look for the grease zerks) on the outer post, the turntable gear bearing and saddle pivot pin on top of the inner post (see general maintenance instructions). The conveyor and turntable are now ready to go out on the job.

## SWIVEL ASSEMBLY

**NOTE:**

BAR PLACEMENT IN THIS DIAGRAM IS FOR ILLUSTRATION PURPOSES ONLY AND IS NOT TO BE USED AS AN EXACT REFERENCE POINT WITH REGARDS TO BAR POSITIONING. THE BAR IS MORE LIKELY TO BE POSITIONED ABOVE THE BUMPER ON MOST UNITS.

PLEASE ALLOW A MINIMUM OF ½" MOVEMENT IN ALL DIRECTIONS WHEN MOUNTING THE BAR. ANY TYPE OF FASTENING THAT INVOLVES WELDING OR BOLTING DOWN THE BAR WILL VOID THE WARRANTY.

IT IS CRITICAL THAT THE SPACERS PROVIDED WITH THE BAR BE PLACED BETWEEN THE BAR AND SWIVEL BASE AND THAT THE BAR IS MOUNTED IN A LEVEL PLANE, FROM BUMPER TO SWIVEL BASE.



# EXT-52 WIRING

## PRESSURE TRANSDUCER

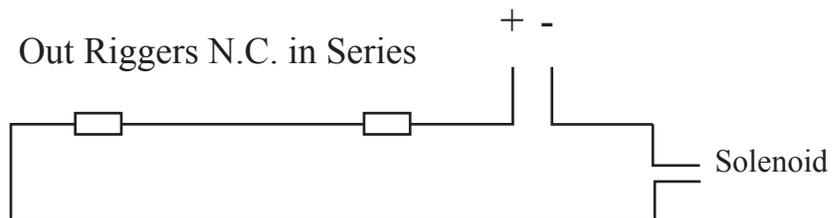
- POS 1 - RED - Power-In
- POS 2 - BLK - Normally Closed (N.C.) Solenoid - Remote Power
- POS 3 - GRN - Normally Opened (N.O.) Solenoid - Right Light Positive
- POS 4 - WHT

## SWITCH/LIGHT BOX

- PINK : Power to Switch
- GREY : Power from Switch
  
- BLUE : Red Light Positive
- WHT : Red Light Negative
  
- GRN : Green Light Positive
- YELLOW : Green Light Negative

## TURNTABLE WIRING

- RED : Power from Truck
- BLK : Ground to Truck
  
- GRN : Belt Solenoid Positive
- WHT : Belt Solenoid Negative
  
- YELLOW : Not used on Swivel



## REMOTE

- Pin 1 : BLK Ground, Pos 4
- Pin 2 : RED +12V DC, Pos 2
- Pin 12 : WHT Pos 4 12V DC
- Pin 14 : Pos 6

POS 1	POS 2	POS 3	POS 4	POS 5	POS 6	POS 7	POS 8
	power to switch	power from switch	Remote Power GRN LIGHT	Remote Ground Lights Ground	Remote Output	Red Light Positive	
	power from TurnTable	Transducer Power	Solenoid N.C.	TurnTable Ground	TurnTable Con	N.O. Transducer	
		Remote White	Remote Red	BLACK WHITE	Remote Ground BLK		
				Remote Ground BLK			



# SECTION THREE

## OPERATING INSTRUCTIONS

### TRUCK-MOUNTED CONVEYORS EXT-52 FIBERGLASS CONVEYOR TURNTABLE AND XHDRTH-4000

<b>OPERATING FEATURES</b>	<b>3-1</b>
<b>OPERATING PROCEDURES</b>	<b>3-2</b>
Positioning Conveyor for Operation	3-2
Transporting Material to Roof	3-3
Observing Live Load Limits	3-3
Returning Conveyor to Traveling Position	3-4
Safety Check System	3-5



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## OPERATING FEATURES

These operating instructions apply to the EXT-52 conveyor and XHDRTH-4000 turntable.

**Before attempting to operate the conveyor/turntable, READ and familiarize yourself with the “General Instructions Section” of this manual.**

The EXT-52 series turntable comes with a full range of hydraulic functions (see Fig. 3-1).

There are five (5) controls which govern the flow of hydraulic fluid in support of various operating functions:

- ▶ Conveyor Lift
- ▶ Conveyor Rotation
- ▶ Belt Power
- ▶ Raising and Lowering Post
- ▶ Conveyor Extension



Fig. 3-1 Hydraulic Controls Mounted on Center Post

The standard hydraulic system (CM) provides employs a direct drive pump and reservoir that the installer connects to the truck transmission by a PTO.

---

### NOTICE

Never drive the truck or race the engine while the PTO is engaged. The pump operates at the correct speed, and produces sufficient oil flow when the truck engine is idling. Driving the truck or racing the motor may damage the pump.

---

Hydraulic fluid lines connect the pump to valves on the turntable post. As load is placed on the system, the pressure correspondingly increases to accommodate the resistance. The factory has pre-set the pressure relief valves in the system to provide enough power to operate the unit at full capacity while keeping the pressure within safe operating limits. If the unit does not operate properly with the pre-set pressures, the system either: (1.) is being incorrectly operated; or (2.) there is a problem in the hydraulic system. Advise your maintenance for correction. The hydraulic system also incorporates a variety of flow restrictors and check valves. Never operate the turntable and conveyor if any of these safety control devices has been removed or is missing.

---

## OPERATING PROCEDURES

### WARNING

---

The EXT-52 conveyor system is designed and manufactured exclusively for purpose of conveying roofing or similarly related materials to elevated work spaces; and should never be used in any other capacity including and in particular as tie-off points by restraint.

 **WARNING** Risk of Death or Serious Injury. NEVER anchor or otherwise secure personnel by fall restraint systems to or in any way rely upon the EXT-52 conveyor structure as anchorage.

---

Observe the following procedures while operating the conveyor:

### POSITIONING CONVEYOR FOR OPERATION

- 1.) Select and secure a safe operation site (See General Instructions). Set up a SAFETY ZONE around the truck (See General Instructions, Section One, pp 1- 3 through 1-4 and Figure 1-21) with ropes, barricades or other suitable equipment. See 29 CFR 1926.1400
- 2.) Review the Warning and Operating Instructions contained in this manual and the Warning Labels (Decals) attached to the conveyor and turntable. Review the Instruction Manual and SAFETY VIDEO provided (if missing, call (CM) at (800) 453-2446 for a free replacement. If you should have any questions, get help as needed before starting operation.
- 3.) Make sure you are familiar with the positioning of the hydraulic function control valves and that all the valves are in the “off” or “neutral” position before engaging the PTO.
- 4.) Block the wheels. Be sure the truck gears are in neutral, and the parking brakes are locked before engaging the PTO.
- 5.) Push down on the control handle to extend the right side outrigger. Push down on the control handle to extend the left side outrigger. Push down on the control handle to lower the right side outrigger. Continue to lower the outrigger until the truck rises slightly. Push down on the control handle to lower the left outrigger until the truck bed is level. If the ground is soft, place planks or blocks under the outrigger feet for greater stability. Extend the outriggers only enough to stabilize the truck. Do not raise the truck wheels off the ground.
- 6.) Unfasten the conveyor from its resting position, and slowly raise the conveyor to a height well above the roof upon which you intend to rest it (the maximum recommended inclination is an angle not to exceed 55 degrees from the horizontal).
- 7.) For XHDRTH-4000 series turntables, engage the rotation function lever, specially marked on most units, and rotate the conveyor slowly until the nose is properly positioned. The conveyor may then be lowered to come to rest on the roof.

- 8.) Adjust the height of the post to place the lower end of the conveyor at a convenient loading height.
- 9.) Support the nose of the conveyor on the roof with the support foot before stating the conveyor.  
**▲ CAUTION** Never operate the conveyor belt while lowering or rotating the conveyor.
- 10.) Start the conveyor belt only after the conveyor is resting solidly on the roof, alerting the worker(s) on the roof.
- 11.) The valves that control the turntable functions are spring-loaded “return to center” devices with a forward and reverse function. They should shut- off automatically when released. If they do not, inspect and repair them to restore automatic centering.

## TRANSPORTING MATERIALS TO ROOF

- 12.) The valve controlling the conveyor belt is a “detente” type that stays in position once it is set. It also has a forward and reverse function.
- 13.) EXT-52 belt-type conveyors have a wireless remote at the nose end allowing the person receiving materials coming off of the conveyor to stop or start the belt when necessary (see Figure 3-2).
- 14.) The valves are set so that moving the valve handles toward the conveyor lifting cylinder mounted on the turntable post, engages the “forward” or “up” function. The rotation on XHDRTH-4000 series turntables is intended to be in the direction that you move the control handle. Test the movement of all components prior to field use. If the valve motion and component direction are inconsistent, make the necessary corrections to rectify.
- 15.) The cylinder inside the post on XHDRTH-4000 series turntables permits the post to raise and lower to provide clearance for truck cargo among other reasons. It also raises and lowers the conveyor to a convenient height above the truck bed when loading the various materials on the conveyor
- 16.) The speed control permits the operator to control the amount of fluid flowing to the various functions. This is particularly useful in varying the speed with which the belt moves along the conveyor.



Fig. 3-2 Control valve at nose of EXT-52 conveyor allows receiving person to control material flow.

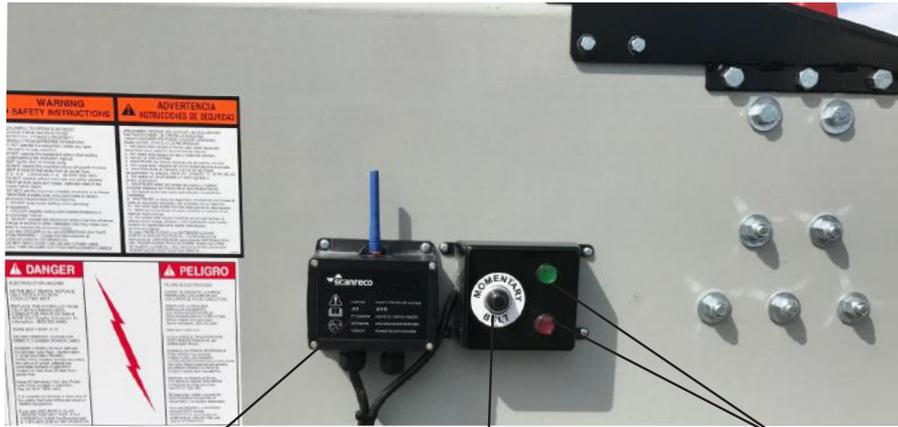
## OBSERVING LIVE LOAD LIMITS

Note and observe weight limits and load capacities for the conveyor. The conveyor has a weight limit/load capacity of one bundle per flight (vertical paddle) for shingles weighing up to 90 pounds per bundle; and one bundle for every other flight for shingles weighing over 90 pounds per bundle.

**RETURNING CONVEYOR TO TRAVELING POSITION**

- 1.) After unloading, recheck and clear the SAFETY ZONE before moving the conveyor. Raise the conveyor boom high enough to clear the side of the building and the edge of the roof, or if possible, raise the conveyor to a height approaching maximum angle of rotation (55 degrees) and then slowly lower the conveyor into its traveling position over the truck cab. To avoid damage to the truck or conveyor boom, do not drop the conveyor. Secure the boom in place
- 2.) When the turntable is in its lowest position, the nose end of the conveyor may be too high to clear bridges. Thus, elevate the post to ensure that the conveyor is positioned parallel with the bed of the truck, prior to traveling.
- 3.) **Disengage the PTO before moving the truck.**

### EXT-52 SAFETY CHECK SYSTEM



REMOTE CONTROL TRANSMITTER

MOMENTARY BELT

SAFETY SYSTEM STATUS INDICATOR

The EXT-52 Conveyor is equipped with a safety check system. The system senses and monitors certain components of the conveyor’s system and indicates whether those components are in place and being used as intended. Once these components are in their operating

position, the green light will be illuminated indicating that the conveyor system is operational. If the red light is illuminated, the components are not yet in their intended place rendering the conveyor system inoperable. (note: the momentary belt function is still operational)



CONVEYOR SYSTEM OPERATIONAL



CONVEYOR SYSTEM NOT OPERATIONAL

#### COMPONENTS THAT AFFECT THE CHECK SYSTEM

- Conveyor Boom is properly supported by the support leg.
- Outrigger Legs are extended and Down.
- The limit switch on the outrigger legs are working properly.
- The sensor off the conveyor boom cylinder is working properly.
- All electrical wires have power and continuity.
- Electrical power supply is supplying the proper 12 volt power.



MOMENTARY BELT BUTTON

The momentary belt button allows the belt to be operational at any state of the safety check system (belt valve must also be engaged in forward or reverse). Simply hold the button down to move the belt. This allows the operator to position the belt as needed to allow for any safety needs and or equipment placement such as roof ladders.



# **SECTION FOUR MAINTENANCE AND SERVICE INSTRUCTIONS**

## **TRUCK-MOUNTED CONVEYORS EXT-52 FIBERGLASS CONVEYOR TURNTABLE AND XHDRTH-4000**

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## GENERAL

This section contains instructions for maintaining and servicing, (1) EXT-52 conveyors; (2) **XHDRTH-4000** full hydraulic turntables. The service record card included with these operating instructions shows the factory recommended maintenance schedule. Also use this card to keep track of maintenance and repairs performed.

(CM) engineers its conveyors to provide years of service in for heavy, continuous use. With proper maintenance, the conveyor system will work when you need it.

Failure to maintain your conveyor and turntable will cause it to wear out faster than it normally would.

Always perform the scheduled maintenance before putting the conveyor in service.

---

### NOTE

**Only trained, qualified personnel should perform maintenance and adjustments.**

---

## ROUTINE MAINTENANCE

### DAILY MAINTENANCE

Inspect each conveyor and turntable unit daily before leaving the yard. Inspect (1) the conveyor boom; (2) all hydraulic hoses and fittings, and (3) the turntable post and head for cracks, splits or other damage. Inspect all steel pins, nuts and bolts (including (a) the pins that connect the conveyor saddle to the post; (b) the pins that connect the cylinders). Make sure the right nuts and cotter pins that keep these items in place are securely attached. Check all fittings for leaks and clear the truck bed of all oil residue. Similarly, inspect outriggers.

### WEEKLY MAINTENANCE

Service each conveyor and turntable unit weekly while in use. Schedule a specific day in the week to perform maintenance, preferably before leaving the yard. It should take about ten to fifteen minutes to complete. Follow the ten-point service program as listed below:

- 1.) Maintain tire pressure as specified on the truck tire side walls. Be sure all tires on the truck are the same size;
- 2.) Inspect hydraulic hoses, valves, motors and fittings for leaks or damage, tighten, repair or replace, as necessary;
- 3.) Keep the valve bank clean and free from obstructions. Replace valve handles when rubber becomes worn and clear the truck bed of all extraneous material and oil;

- 4.) Grease the inner turntable post to avoid abrasive wear. Always keep the post well-lubricated. Lubricate using only a good grade of lithium-based all- purpose grease.
- 5.) Grease the pin used to hinge the conveyor saddle or platform to the turntable post. Always keep the pin well-greased (the grease zerk is located on the top of the post);
- 6.) Grease the thrust gear bearing bolted to the underneath side of the turntable base plate (the thrust gear bearing has a grease zerk on the inside of the bearing to permit lubrication);
- 7.) Inspect all cylinder and hinge pins for wear and be sure all cotter and clip pins are present. Replace if missing, or if wear is visible.
- 8.) Tighten all nuts and bolts.
- 9.) Check the gear alignment and condition of the teeth on both the small and the large gear. Always keep the bearing greased and inspect: (a) the ear (located on the inner turntable post) to which the cylinder that lifts the conveyor up and down is pinned; (b) the ear on the saddle where the other end of the cylinder is pinned. Replace the entire post or saddle if cracks, breaks, sagging or other signs of wear are visible.
- 10.) The inner belt pulley has two adjuster bolts to track the conveyor belt. The belt must be tracked properly at this location, as well as the other belt pulleys, in order to avoid damage to the conveyor belt. This is done by adjusting either the left or the right adjuster bolt to center the belt. The belt may deviate from left to right some. However, the belt must not rub against any side of the conveyor to avoid damage. **Since this pulley is not visible from the outside, this specific pulley must be inspected regularly to ensure that the belt is not running off track.** See Figure 4-2

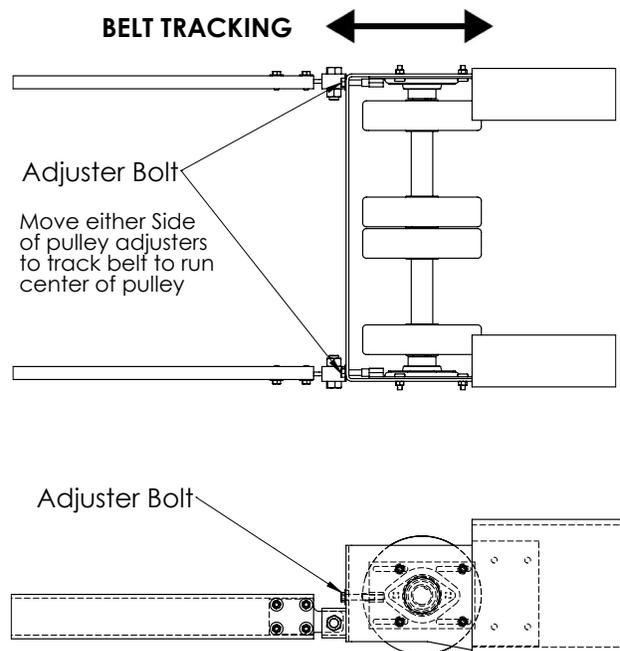


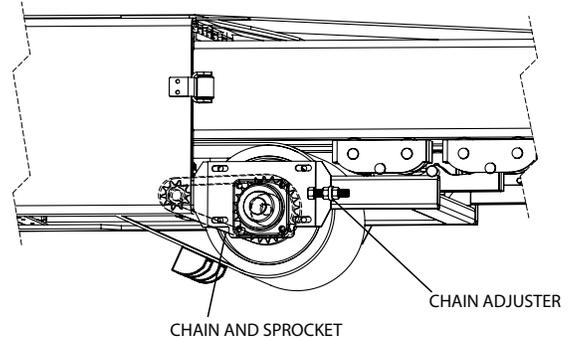
Fig 4-2

## MONTHLY MAINTENANCE

When in use, adjust and align major turntable and conveyor components even if no problems are evident upon visual inspection. Check the following items every month, **See 29 CFR 1926.1400:**

- 1.) 1.) Check the hydraulic oil level, and add fluid as necessary. (CM) recommends use of Conoco No. 46 Anti- Wear hydraulic oil or equivalent.
- 2.) 2.) Check the conveyor belt for tension and alignment according to the instructions contained below.

- 3.) 3.) Inspect the chain drive sprockets located at the top end of the conveyor (see Fig. 4-1). on the inside of the conveyor frame, for true alignment and correct chain tension. Realign the sprockets and tighten the set of screws as necessary. Press the chain with your thumb midway between the sprockets. You should be able to move the chain about ½ inch with thumb pressure. Tightening the chain too tightly can damage the bearings. Lubricate the No. 60 roller chain on the chain drive. (CM) recommends a multi-purpose lubricant such as a lithium-based spray grease.




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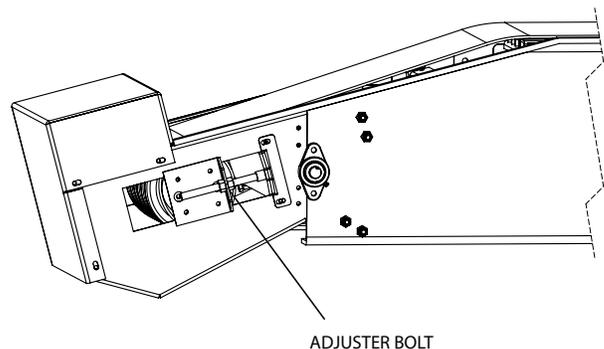
**IMPORTANT NOTE**  
**When inspecting the EXT-52 conveyor belt, read the notice regarding BELT REPLACEMENT, see “IMPORTANT INFORMATION”, p-i.**

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- 4.) 4.) Inspect the conveyor belt for proper tension. It is normal for the belt to loosen after its initial use. The amount the belt will stretch depends upon the loads it carries, but will probably be somewhere around three (3) percent. Pull up hard on the belt at the center of the conveyor so as to lift it up off the conveyor frame. There should be between 4-6 inches of clearance maximum between the belt and the frame (see Fig 4-2)
- 5.) 5.) If the clearance is more than the specified distance, tighten the belt by adjusting the take-up screws at the bottom end of the conveyor (see Fig. 4- 3). If the clearance is less than the specified distance, loosen the belt similarly. Running the conveyor with the belt too tight can damage the belt and cause excessive bearing wear.



**Fig 4-2 Conveyor belt tension is correct when belt can be lifted 4-6 inches in middle on conveyor.**



**Fig 4-3 Conveyor belt tension is adjusted by turning the adjusting screws at the base at the end of the conveyor.**

- 6.) Inspect the belt to make sure the “V”-Guide on the bottom side of the conveyor runs in the center of the head and tail pulleys and in between the channel underneath the belt. A belt that is too loose may walk excessively, even if it is properly aligned. Similarly, you can align the belt at the bottom end by adjusting the long take-up screws that tighten the belt.
- 7.) Check all seated bearings for wear. Replace worn bearings.
- 8.) 8.) The conveyor rotates by means of a hydraulic motor mounted underneath the base plate of the turntable. The rotation system is a gear-to-gear drive system driven with a small 2-inch pinion gear that in turn, drives a 22-inch by 2-inch gear and bearing. The bolts that fasten the gear bearing to the base plate are special high-strength steel alloy fasteners. During assembly of the turntable, these bolts are torqued to a value of 203 ft.-lbs. [5/8 inch SAE Grade 8 bolts]. It is necessary for your safety, and that of others, to maintain the bolts at the specified torsional value.  
 -Verify proper torsional value by applying a torque wrench to each bolt connecting the bearing/gear to the base plate. Verify all bolts in the pattern, both on the upper and lower mounting surfaces once EVERY THREE MONTHS. DO NOT EXCEED THE SPECIFIED TORSIONAL VALUES.
- 9.) Keep the gears greased.
- 10.) Inspect and replace any damaged or otherwise deteriorated warning or safety labels (see Section 5 for appropriate labels and locations). Replacement labels are available free of charge from your local dealer, distributor or service center. If you are unable to locate a local representative, contact CM for replacements.

## PREPARATION FOR STORAGE

When the conveyor will remain unused for more than one month, conduct the following maintenance before placing the unit in storage:

- 1.) Clean the truck, conveyor, and turntable thoroughly.
- 2.) Perform the weekly and monthly maintenance described above. Maintain the truck as recommended in the owner’s manual.
- 3.) To prevent rust, oil all exposed cylinder rods with the same grade of hydraulic oil specified for use in the system.
- 4.) Order any replacement parts required, and schedule any maintenance necessary to prepare the unit for the next season.

## UNIT REPLACEMENT

In addition to the required periodic servicing and maintenance detailed above, note that certain parts of the conveyor need periodic replacement. Important: Read the special instructions for belt and hydraulic line replacement for EXT-52 conveyors located at the beginning of the manual. Although (CM) employs every effort to assure that customer expectation of performance is exceeded, from time to time however, it may be necessary to replace components following extended use. As is the case with any mechanical system, components wear out. The rapidity with which this occurs is a function of a number of factors, including environmental conditions, extremes in hot and cold or damp conditions. Also and most significantly, hours in service and the nature of use rather light, moderate or heavy. These and other factors all come to bear in predicting component longevity.

Cleasby Conveyors, recommends that you replace certain parts before they fail. A complete failure of certain components may create a safety hazard or cause extensive damage to other costly parts. The following replacements are highly recommended when a careful inspection indicates excessive wear or damage:

- 1.) It is very important that you see to it that the safety and warning labels placed on the conveyor and turntable at the factory are always readable. If not, they must be replaced. Replacement labels are available, free of charge from either your dealer, distributor or directly from the factory.

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A red rectangular warning sign with a white triangle containing a black exclamation mark, followed by the word "DANGER" in white capital letters on a red background.

**Risk of DEATH or SERIOUS INJURY if the Conveyor or Load comes in Contact with or Proximity to Power Lines**

**Never replace Hydraulic lines with metal or rubber substitutes**

**The Belt Must Not be replaced except with an IDENTICAL belt that must be ordered from Cleasby Conveyors (800) 453-2446**

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- 2.) As a result of exposure to the elements, the rubber hydraulic hoses on the conveyor will deteriorate even if the unit is not in regular use. Heavy use or damage can also abrade the outer cover on the hoses. Under normal usage, the hoses should last two to four years. When the hoses show deep or extensive cracking or splitting of the outer cover, replace them.
- 3.) Inspect the pinion gear and gear bearing. Insure that the teeth are in good shape, and that the gears are aligned properly. Make sure the motor mounting bolts are tight (see previous instructions).

**IMPORTANT:** When using a EXT-52 Series fiberglass conveyor, change the hydraulic oil every **SIX MONTHS** at least. This will eliminate any metal chips or other particles suspended in the hydraulic system and help insure the electrical insulation standards for the fiberglass conveyor. See 29 CFR 1926.1400.

- 4.) After three to five years, it may be necessary to replace the seals in the valves, cylinders and pump. Operating the unit with dirty or contaminated oil, however will shorten the life of these parts significantly. Dirt in the oil can cause scoring of the interior metal surfaces, while contaminants can cause rust, corrosion and seal deterioration. Drain and replace the oil with Conoco No. 46 anti-wear hydraulic oil, or its equivalent. If oil becomes contaminated through pump or other component failure, replace the fluid immediately.
- 5.) Replace the saddle hinge pin, cotter pins and clips, if wear is evident.

## **NOTES**

Lubricate the saddle hinge pin by using the grease zerk on top of the turntable post.

Keep all nuts and bolts tight. Torque the bolts that hold the thrust gear bearing to the base plate (top and bottom) to 203 ft.-lbs. [5/8 inch SAE Grade 8 Bolts].

Keep all other nuts and bolts tight.

## **LOWERING THE CONVEYOR WITHOUT POWER**

The quick instruction is: DON'T EVEN TRY! Hydraulic power may be unavailable if the truck motor won't start. If a hose breaks, or if a power take-off fails. If this happens, do one of two things, first, bring in a portable power supply to get the conveyor to the rack, second, get to a repair facility, or use a crane to lift the conveyor back into the traveling position.

The hydraulic cylinder that raises and lowers the conveyor has a velocity fuse valve that maintains pressure in the raise side of the cylinder until the pressure releases. This keeps the conveyor in position, even if there is no hydraulic power.

## **MAINTENANCE AND SERVICE RECORDS**

A permanent maintenance and service record is critical to the proper maintenance of a reliable and safe conveyor system. On the following pages you will find blank maintenance and service pages. Please feel free to make photocopies for permanent use in your maintenance and service records. There are spaces provided for the operator or service person to date and initial the record each time a service is performed. There is also a space provided for comments concerning problems and to note when repairs are made. If a separate maintenance group maintains the conveyor system, forward this section and the maintenance and service records to that group. In most cases, the operator will perform the daily maintenance. Therefore, the daily maintenance record should stay with the conveyor.

# CLEASBY CONVEYORS MAINTENANCE & SERVICE INSPECTION LIST

Customer Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_

Inspection Date: \_\_\_\_\_  
 Work Order #: \_\_\_\_\_  
 Truck #: \_\_\_\_\_

**O.S.H.A. INSPECTION REQUIREMENTS:** O.S.H.A. 1926.550 requires that an employer shall perform daily and monthly inspections and maintain results of inspections for each hoisting machine and piece of equipment. It further requires that a thorough annual inspection of hoisting machinery be made by a competent person, or by a government or private agency recognized by the U.S. Department of Labor; and that the employer maintain a record of the dates and results of inspections of each hoisting machine and piece of equipment. The following are suggested inspection items to perform on Cleasby conveyors, turntables and stabilizers in order to comply with O.S.H.A Regulation 1926.550.

**GENERAL INSTRUCTIONS:** All inspections listed should be performed as schedule indicates. Daily inspections do not have to be recorded but should be verified and recorded monthly. A copy of completed form should remain with conveyor at all times. **If you do not understand these instructions, or if you are not sure whether or not a part should be replaced, please call the manufacturer; Cleasby Conveyors, 1-800-453-2446**

D = Daily W = Weekly M = Monthly S = Semi-Annually	<b>INSPECTION DESCRIPTION</b>	P = Pass F = Fail	<b>REPAIRED</b>  <b>YES/NO</b> <b>DATE</b>
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Conveyor Model # \_\_\_\_\_ Serial # \_\_\_\_\_

D	Check safety and warning decals for legibility and replace if necessary			
D	Check conveyor mounting pin and brass bushing for excessive wear			
D	Check hydraulic hose and fitting for leaks and replace only with orange <b>NON-CONDUCTIVE</b> hydraulic hose			
D	Check instruction tube at the bottom side of conveyors for manual			
D	Check on/off belt control valve for smooth operation			
W	Check loading guard. Replace if damaged or bent			
W	Check nose loops for wear and replace if necessary			
W	Check roof support legs and pins and replace if missing			
W	Check chain and sprocket guard and replace if missing or damaged			
W	Clean conveyor to eliminate conductive contaminates			
M	Inspect fiberglass channel for cracks, excessive wear or holes			
M	Check conveyor saddle for wear or cracks in welds or metal			
M	Check drive chain and sprockets for alignment or excessive wear			
M	Check tail pulley wheels, bushings, shaft and take up plates for wear			
M	Check drive drum wheels, bearings, shaft and grease if necessary			
M	Check belt for excessive wear, cracks and tension and replace with only a <b>NON-CONDUCTIVE</b> PVC belt			
M	Tighten all nuts and bolts			
M	Check all cleats on belt to make sure nuts and bolts are tight. Replace any cleats that may be missing.			
M	Check belt return rollers and tracking guides for excessive wear.			



# CLEASBY CONVEYORS MAINTENANCE & SERVICE INSPECTION LIST (CON'T)

Turntable Model # \_\_\_\_\_ Serial # \_\_\_\_\_

D	Check safety and warning decals for legibility and replace if necessary			
D	Check velocity fuse, hose and restrictor fitting and replace if missing			
D	Check hydraulic hose and fitting for leaks and replace if necessary			
D	Check four spool control valve for smooth operation			
W	Check cylinder pins, washers and cotter pins, replace if worn or missing			
W	Check hydraulic reservoir for proper oil level. Change oil semi-annually			
W	Check brass wear pads and Teflon wear plug for wear, replace if necessary			
W	Check post cylinder ears and weld for cracks and repair if necessary			
W	Check control valve handles and labels, replace if necessary			
M	Check inner and outer post for wear and excessive play			
M	Check gear bearing for excessive wear and grease as needed			
M	Check gear bearing bolts, replace if worn, cracked, stripped or broken			
M	Check pinion gear and gear bearing for alignment			
M	Check top and bottom inner post cylinder pins and cotters, replace if necessary			
M	Check all metal welds for cracks and wear			
M	Check turntable mounting bolt and blocks for wear			
M	Check turntable posts for grease. Add grease as needed.			
S	Change hydraulic oil filter on return line			

Stabilizer Model # \_\_\_\_\_ Serial # \_\_\_\_\_

D	Check safety decals for legibility, replace if necessary			
D	Check control valve for smooth operation			
D	Check holding valve on stabilizer leg			
D	Check hydraulic hoses and fittings for leaks, replace if necessary			
W	Check hydraulic cylinder, pins and cotter, replace if necessary			
W	Check hydraulic cylinder ears and welds on legs for wear			
W	Check Stabilizer foot, leg and hinge pins for wear			
W	Check control valve handles and labels, replace if necessary			
M	Check stabilizer frame welds for cracks and wear, repair if necessary			

Powered Model # \_\_\_\_\_ Serial # \_\_\_\_\_

M	Check pinion and gear alignment			
M	Check gears for damage and wear			
M	Check chains, links, and pins for wear and bending			
M	Check if push bar is bent, damaged or has cracks			
M	Check if 2x3 rails have cracks, damage or wear			
M	Check safety doors if bent or missing			
M	Check hoses and fittings for leaks or wear			
M	Check all welds for cracks			





### Re: Replacement/Adjustment Procedure XHDRTH-4000 Series Turntable Wear Plugs

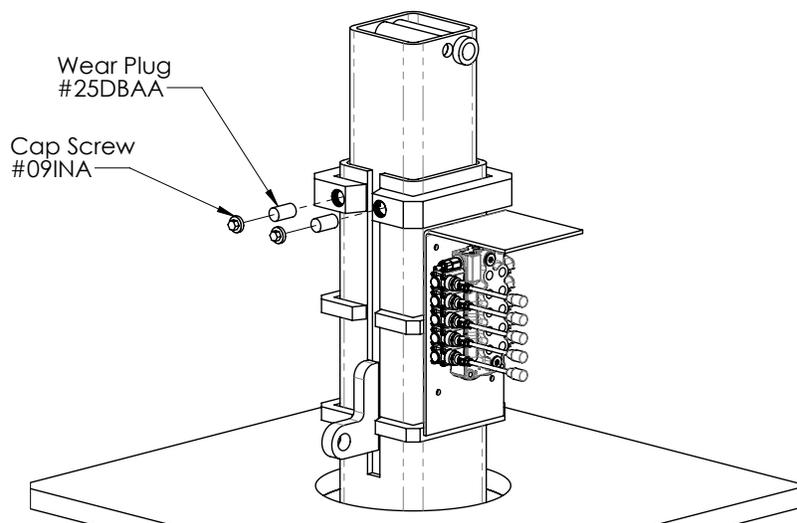
A coupler consisting of a Wear Plug Housing, Cap Screw and Bronze Plug are depicted in Figure No. 1 in assembled and exploded view respectively (see Fig. No. 1 below).

The Bronze Plug provides low friction bearing support between contacting surfaces of the columns during extension and retraction of the inner post.

Normal use will require occasional replacement of the Bronze Plug. The repeated extension/retraction cycle of operation of the inner post, over time wears away the protruding segment of the plug. As the plugs wear (one on each side of the post, see Fig. No.1) the gap or space between the columns narrows. To avoid metal to metal contact, the plugs must be adjusted for position to correct for the narrowed gap lost through wear or replaced if no further adjustment capability exists.

Replacement and/or periodic adjustment of position of the plugs is best accomplished as follows:

- 1.) Bring the conveyor into Horizontal Orientation 180 degrees from its normal resting position in the Headache rack in order to achieve a minimum gap between posts of approximately 1/4 inch. **DANGER! Look up and around. Made certain there are no overhead wires or power lines that may interfere or come into contact with the conveyor during positioning for replacement.** See the Owner's Manual for additional Warnings and Instructions. If you do not have an owner's manual, please contact Cleasby for a replacement. Dial 1-(800) 453-2446. See 29CFR 1926.1400.
- 2.) **ADJUSTMENT:** Attempt to turn the Cap Screw by a clock-wise rotation. If by application of reasonable force you are unable to rotate the Cap Screw, heat may be required to break the chemical bond of a thread sealant applied at the factory. If by this rotation you encounter a dead stop i.e. threads bottom-out and the gap is not filled by protrusion of the Bronze Plug, a new plug must be inserted, see step (3). Otherwise, go to step (4).
- 3.) **REPLACEMENT:** Remove Cap Screw and insert a new Bronze Plug into the Wear Plug Housing. A portion of the old plug may still be present. This residual portion of the former plug should remain in the Wear Plug Housing. If by inserting the new plug, you are unable to engage the threads of the Cap Screw and Wear Plug Housing, it will be necessary to reduce the length of the new plug by removing a portion sufficient to allow placement into the Wear Plug Housing and to engage the Cap Screw threads. **CAUTION:** for proper thread engagement, the end of the Cap Screw should not extend outside of a plane constituting the outbound end surface of the Wear Plug Housing. After satisfying yourself that the appropriate amount of trim has been removed (as necessary) sufficient to allow proper engagement of the threads, rotate the Cap Screw until tight
- 4.) Remove the Cap Screw and apply to the surface of the threads **LOCTITE 262 Thread Locker** (follow manufacturer's directions). The Cap Screw should then be reinserted and tightened (clock-wise rotation) until snug). The sealant will cure within a few minutes.



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## SAFETY & WARNING LABELS

### LABELS PLACED BY THE MANUFACTURER

Cleasby Conveyor places a number of warning labels on the conveyor and turntable to warn of dangers and to remind operators of correct operating procedures. **Note: The warning labels contain important warning information. Keep them visible and do not remove them.**

Instruct operators to review the warning labels daily as they start to make their deliveries. This daily review of safety precautions will help our operators be more safety conscious, reducing hazards to themselves and others.

Use care when cleaning the equipment to avoid damage to the warning labels by strong solvents or steam. Mask each label carefully before painting the unit. If the labels become damaged or unreadable, replace them promptly.

### LABELS TO BE PLACED BY YOU OR YOUR INSTALLER

- 1.) **Truck-Cab Labels.** In addition to labels pre- installed on the turntable and conveyor, (CM) provides a warning labels that must be placed on the dash of the truck. Mount these labels in clear view of the operator and protect them from damage as described above.
- 2.) **Truck-Bed Label.** Cleasby Conveyors, also provides five (5) warning labels that must be placed at certain locations on the truck bed (see

WARNINGS AND CAUTIONS, Section One).

These labels are 5 3/8 inches in width, so if the truck bed on which you are installing the conveyor is not thick enough to allow for good placement of these labels, mounting brackets are available from the manufacturer, see note below.

### DIAGRAMS

SECTION ONE contains diagrams of where (CM) has pre-installed labels on the turntable and the conveyor; and facsimile of the labels themselves. The left-hand page in each instance contains the placement diagram. Arrows on the diagram designate each label's identification number and its location on the equipment. The right-hand page in each instance contains representations of the various labels, and approximate placement on the equipment relative to each other.

Clearer representations of each label appear in numerical order following the diagrams noted above, see SECTION SEVEN. These are shown at a fraction of actual size. At the time of delivery, and periodically thereafter, look at the equipment with this manual in hand, checking each label in turn until you are satisfied that all labels are properly positioned as specified in the manual.

#### NOTE

**Additional labels and truck bed mounting brackets are available free of charge. Call your local dealer or distributor. If there is no dealer or distributor in your area, please call (CM) at (800) 453-2446.**



# **SECTION FIVE PARTS IDENTIFICATION**

## **TRUCK MOUNTED CONVEYORS EXT-52 FIBERGLASS SERIES TURNTABLE XDRTH-4000**



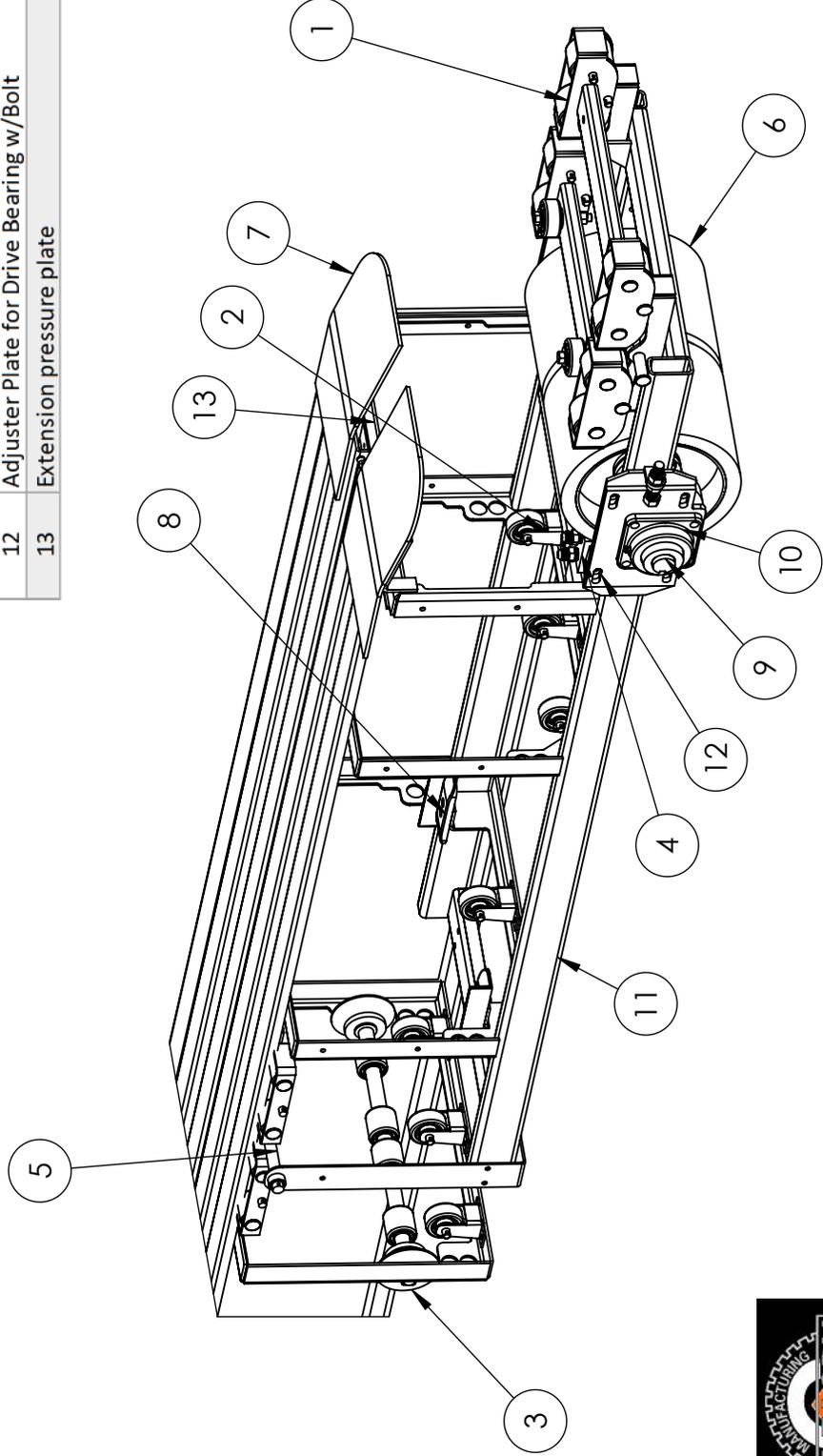
**362 South Main, Clearfield, UT 84015  
801-773-1311 \* 800-453-2446 \* Fax 801-773-3249**

Cleasby Conveyors (EXT REV 17.1 - October 2017)



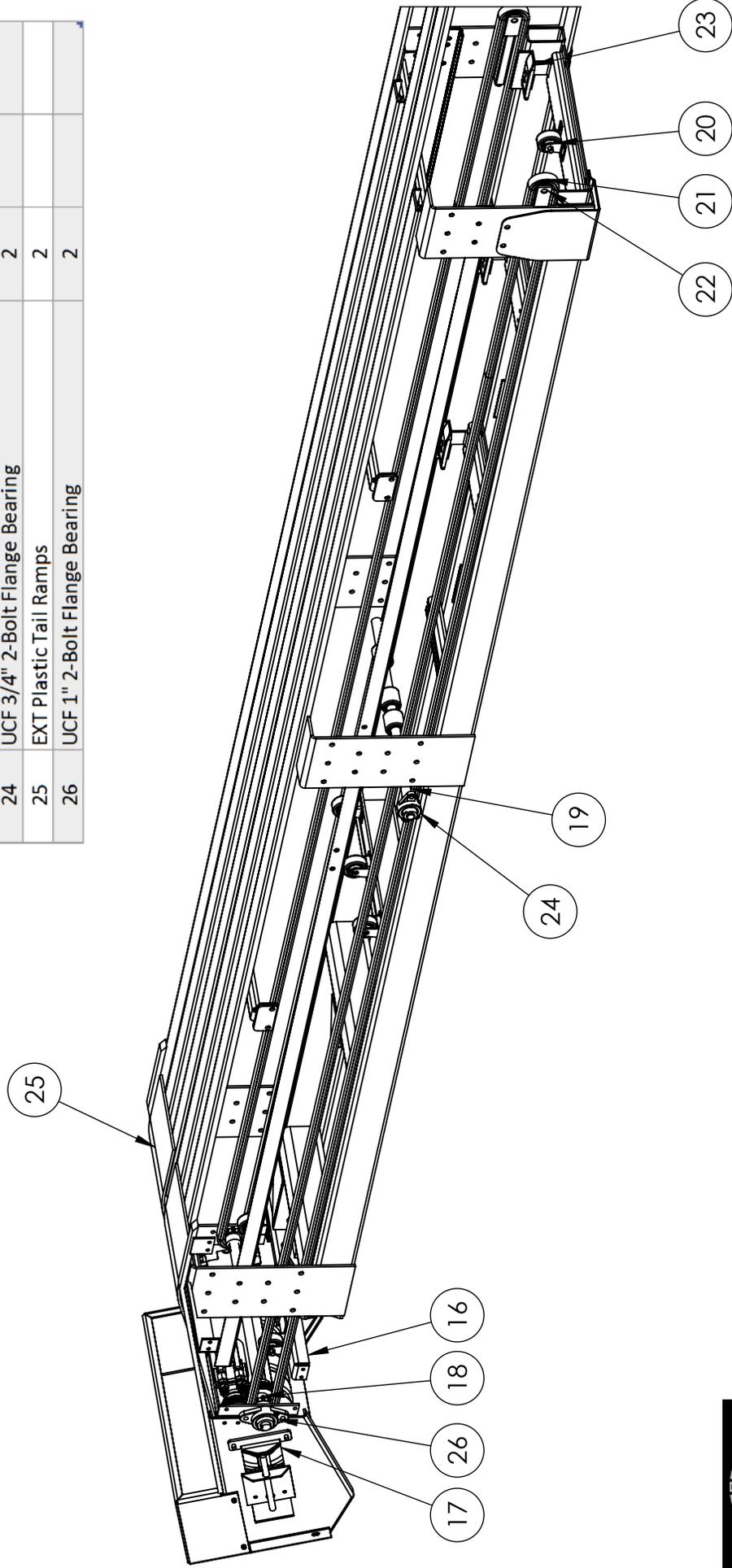
# PARTS IDENTIFICATION : Main Boom Drive End

NO.	DESCRIPTION	QTY	PART NO.	DETAIL
1	Front Support Roller Assembly	1		Page M1
2	EXT Complete Return Roller assembly (tall)	12		Page M2
3	Extension boom Guide roller assembly	2		Page M2
4	Belt Hydraulic Chain Drive Assembly	1		Page M4
5	Rear Support Roller Assembly	1		Page M5
6	12" OD Lagged Drive Pulley - 1-1/2" Bore	1		
7	Plastic Transition Ramp	2		
8	FBR Tracking Angle w/Bolts	4	133AFB	
9	1-1/2" Belt Drive Shaft	1		
10	UCF 1-1/2" 4-Bolt Flange Bearing	2		
11	Main Boom Torsion Box Frame Weldment	1		
12	Adjuster Plate for Drive Bearing w/Bolt	2	5VAAAAY	
13	Extension pressure plate	1		

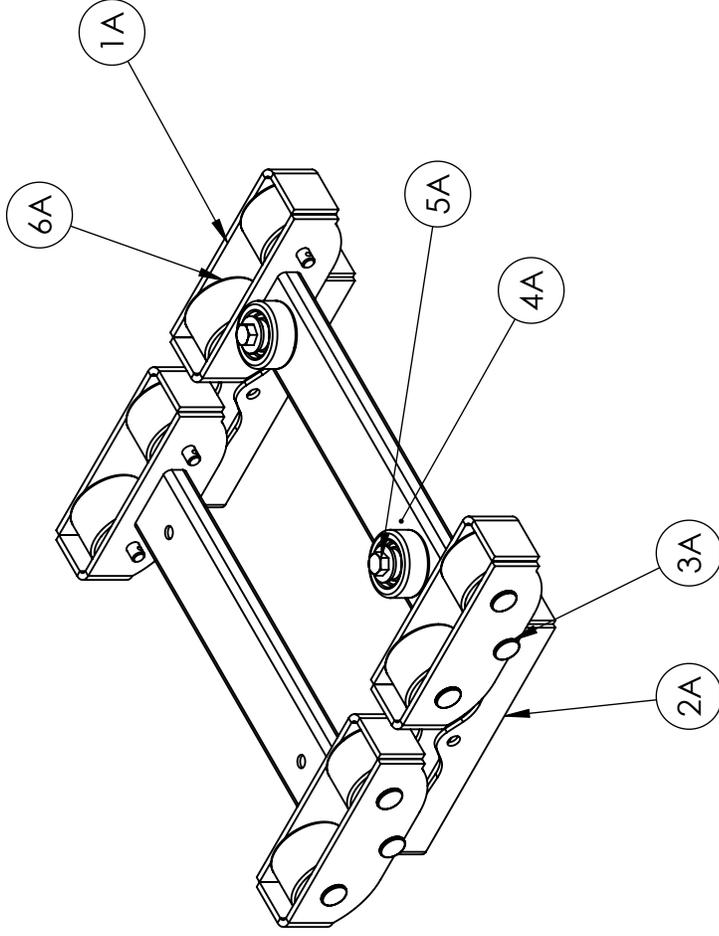


# PARTS IDENTIFICATION : Main Boom Tail End

Main Boom Tail End			
NO.	DESCRIPTION	QTY	PART NO. DETAIL
16	3 Roller Saddle Bracket Assembly	1	Page M6
17	Tail End Assembly	1	Page M7
18	Extension Drive Assembly	1	Page M8
19	Belt Separation Hold Down assembly	1	Page M9
20	Saddle Return Roller Assembly	3	Page M9
21	#60 Extension Chain	2	
22	Inner Telescoping Idler Sprocket	2	
23	FBR Tracking Angle		133AFB
24	UCF 3/4" 2-Bolt Flange Bearing	2	
25	EXT Plastic Tail Ramps	2	
26	UCF 1" 2-Bolt Flange Bearing	2	



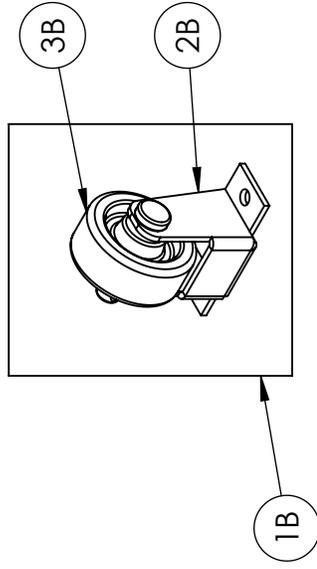
**PARTS IDENTIFICATION :** Front Support Roller Assembly



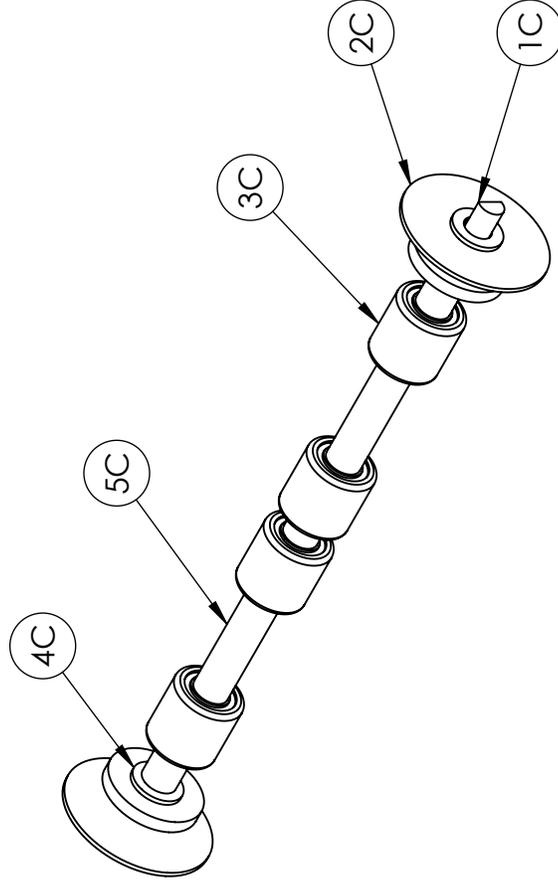
Front Support Roller Assembly			
NO.	DESCRIPTION	QTY	PART NO.
1A	Front Support Roller Weldment	2	
2A	Front Rocker Arm Weldment	2	
3A	Pin For Support Rollers	12	
4A	FBR 2.5" roller (Front Guide)	2	
5A	1/2" x 3" Hex Bolt	2	
6A	3" Support Roller	8	



# PARTS IDENTIFICATION : EXT Return Roller (tail) / Guide Roller Assembly



EXT Return Roller Assembly (tail)			
NO.	DESCRIPTION	QTY	PART NO.
1B	EXT Return Roller Bracket (tail) Assembly Complete	-	
2B	EXT Return Roller Bracket (tail) only	1	5VAABJ
3B	2-1/2" Roller with Pin and Cotter	1	132FB

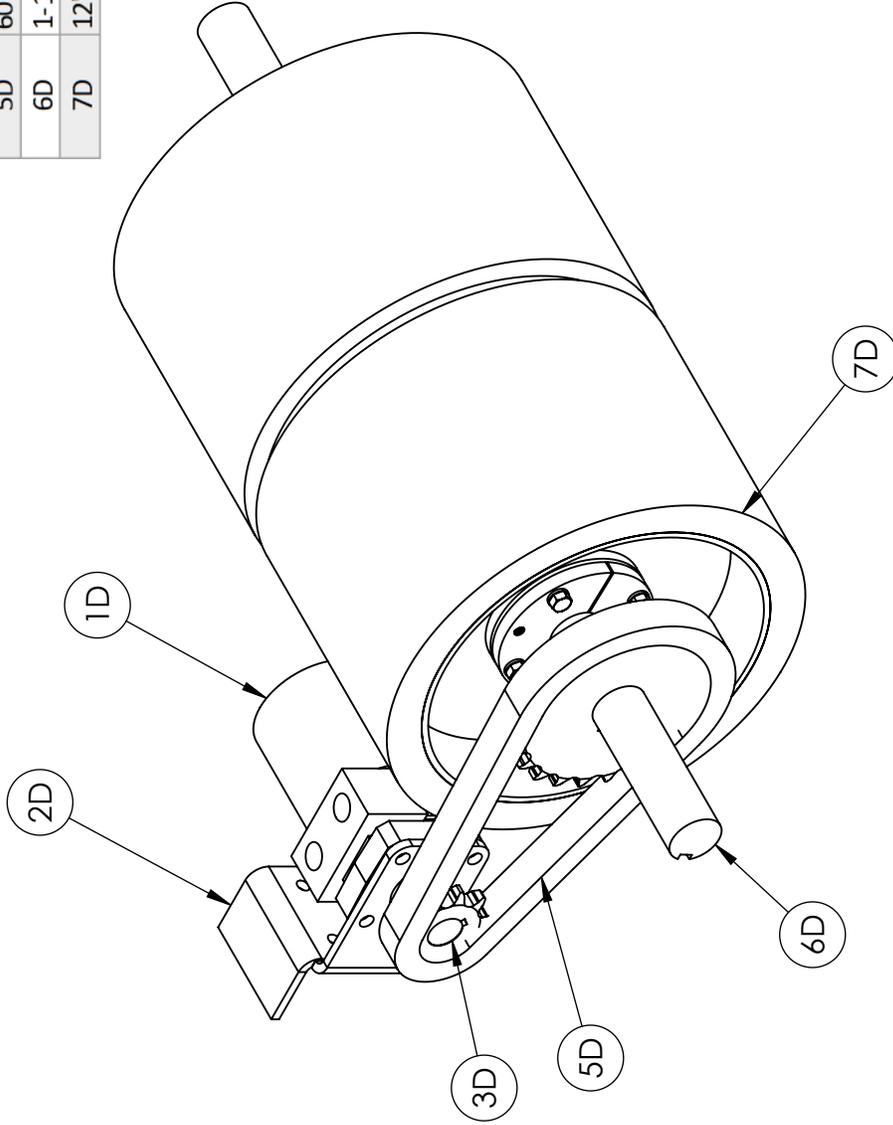


Guide Roller Assembly			
NO.	DESCRIPTION	QTY	PART NO.
1C	Guide Roller Shaft	1	
2C	EXT Guide Roller	2	
3C	2" Separator Roller 3/4" Bore	4	
4C	3/4" Washer SAE Flange	4	
5C	Roller Separator tubing kit (5 pcs)	1	



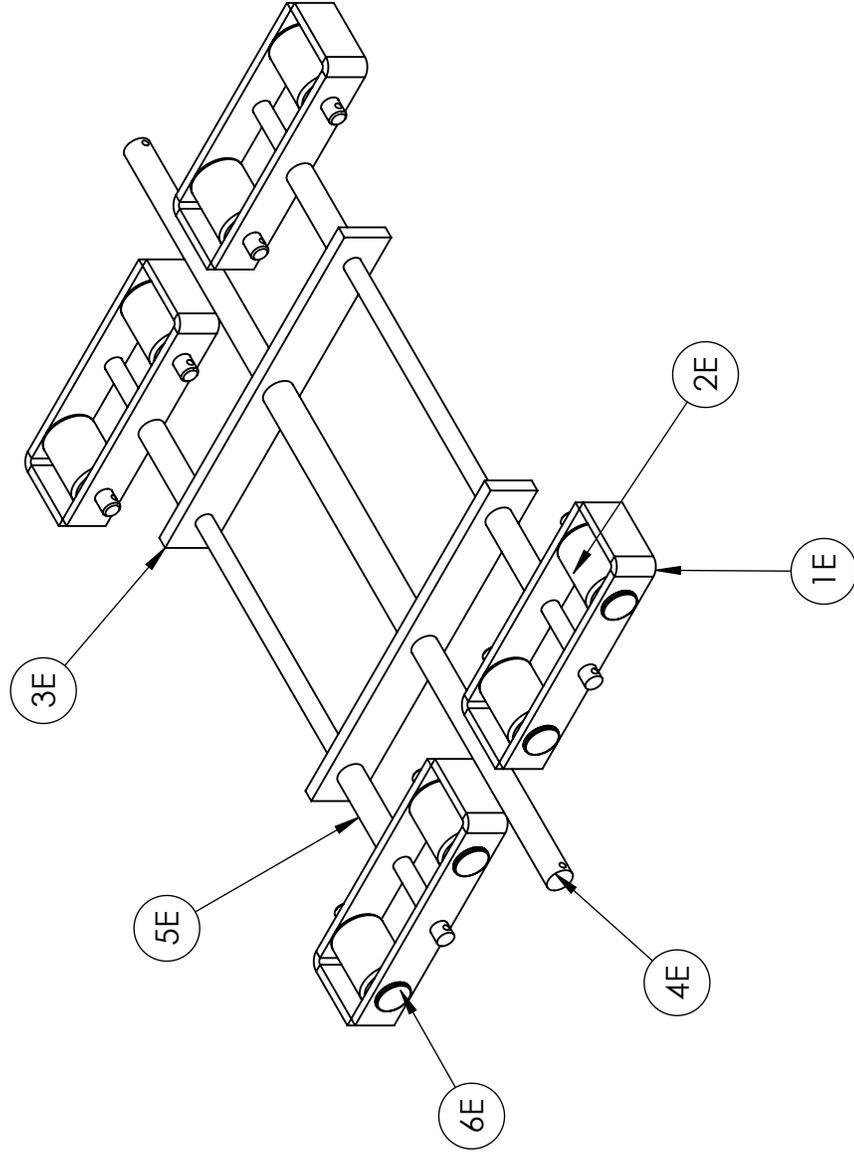
# PARTS IDENTIFICATION : Belt Hyd Chain Drive Assembly

Belt HYD. Chain Drive Assembly			
NO.	DESCRIPTION	QTY	PART NO.
1D	Cleasby 6 cu in. Hyd Belt Motor	1	13BB
2D	Belt Drive Motor Mount Bracket	1	5VAAAAN
3D	60B10 x 1" Bore Sprocket	1	17DA
4D	60B24 x 1-1/2" Bore Sprocket	1	
5D	60 Roller Chain (30")	1	18LB
6D	1-1/2" Belt Drive Shaft	1	
7D	12" OD Diameter Lagged Drive Drum	1	



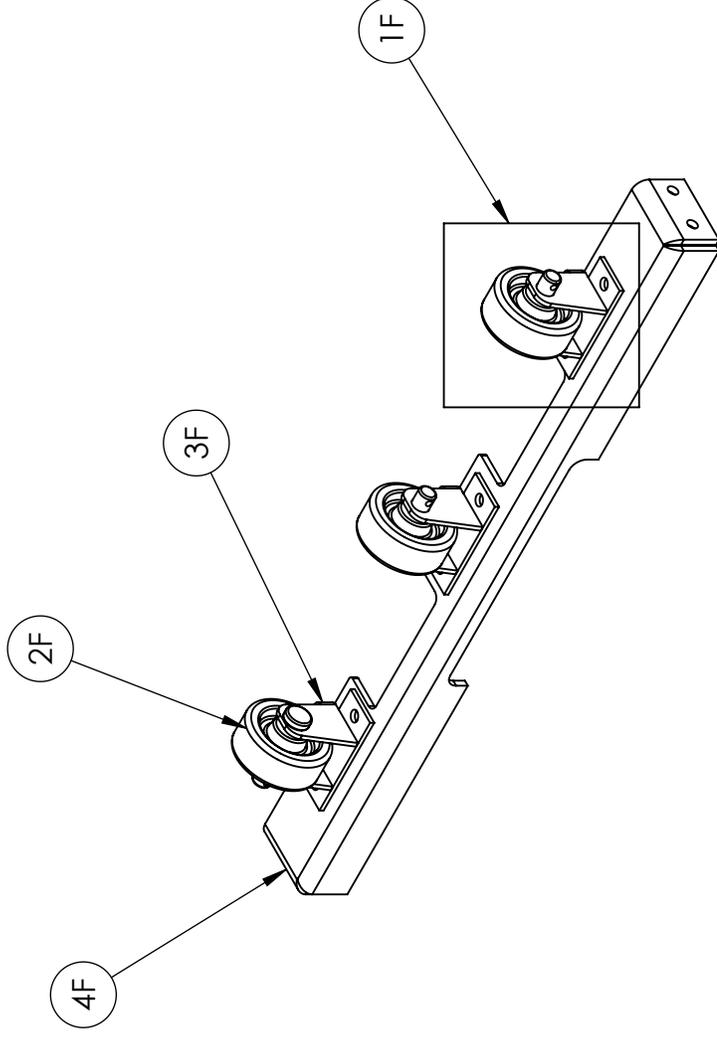
# PARTS IDENTIFICATION : Rear Support Roller Assembly

Rear Support Roller Assembly			
NO.	DESCRIPTION	QTY	PART NO.
1E	Rear Support Roller Weldment Frame	4	
2E	1-1/2" Support Roller x 1/2" Bore	8	
3E	Rear Rocker Weldment	1	
4E	Main pin for Rear Support Roller Asm	1	
5E	Roller Bracket Spacer Tube	4	
6E	1/2" Pin for Rear Roller Bracket	8	



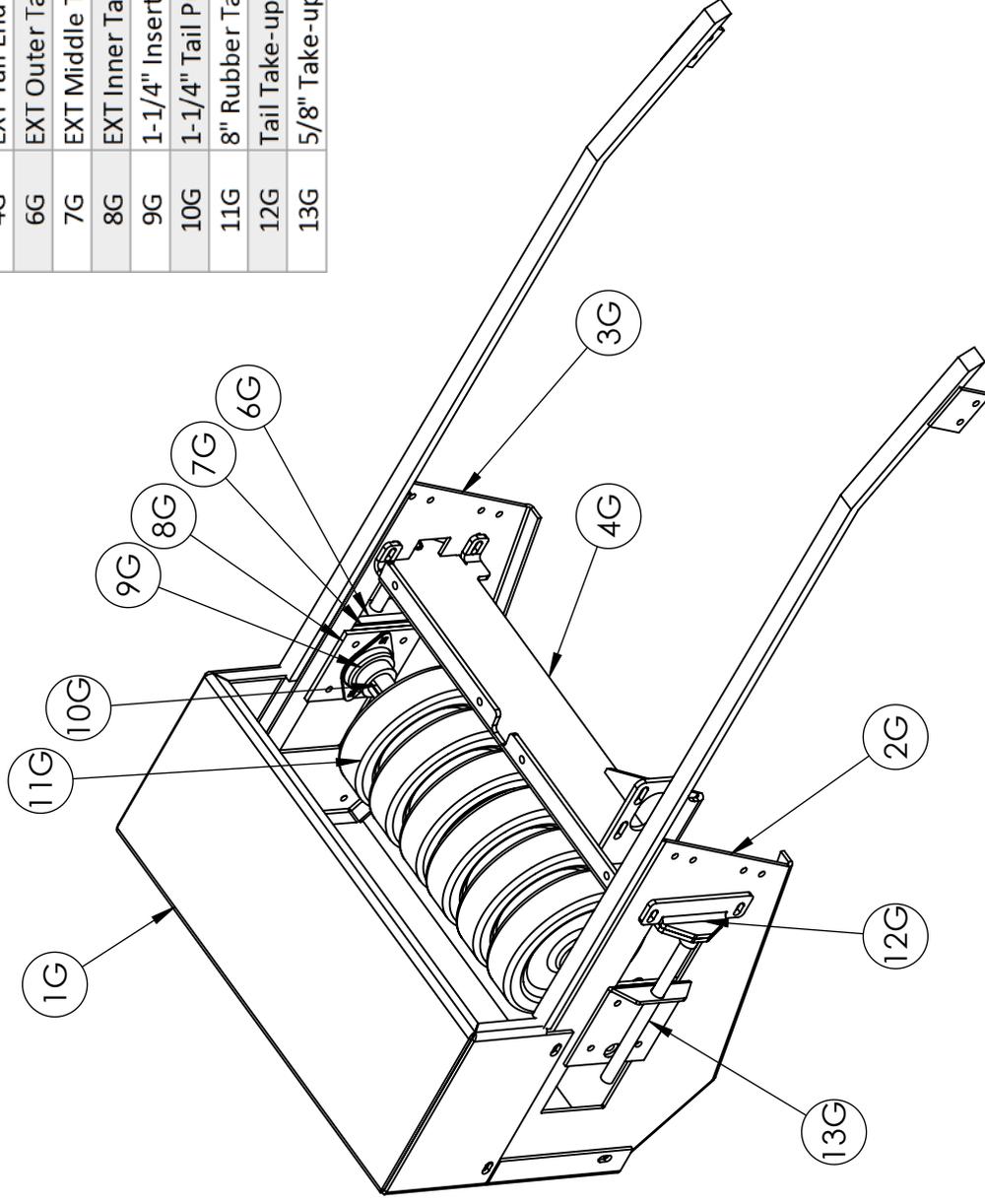
# PARTS IDENTIFICATION : Saddle 3 Return Roller Bracket Assembly

Saddle 3 Return roller Bracket Assembly			
NO.	DESCRIPTION	QTY	PART NO.
1F	EXT Return Roller Assembly (short) Complete	-	
2F	2-1/2" Roller x 1/2" Bore with Pin and Cotter	3	
3F	EXT Return Roller Bracket (Short) Only	3	5VAABI
4F	Saddle 3 Roller Bracket	1	5VAAAF



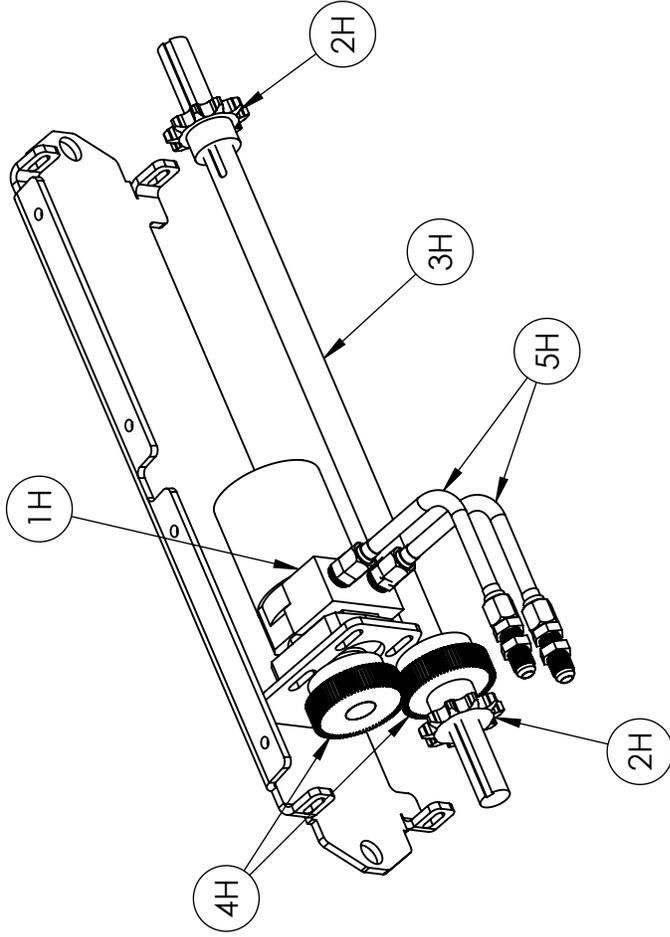
# PARTS IDENTIFICATION : Tail Pulley Assembly

EXT Tail Pulley Assembly			
NO.	DESCRIPTION	QTY	PART NO.
1G	EXT Loading Guard	1	5VAABP
2G	Right Tail Bearing Plate	1	
3G	Left Tail Bearing Plate	1	
4G	EXT Tail End Plate / Extension Motor Mount	1	5VAAAC
6G	EXT Outer Take-up Plate	2	5VAAAO
7G	EXT Middle Take-up Plate	2	5VAAAL
8G	EXT Inner Take-up Plate	2	5VAAAM
9G	1-1/4" Insert Bearing with Flangette	2	16AFA
10G	1-1/4" Tail Pulley Shaft	1	
11G	8" Rubber Tail pulley wheel 1-1/4" Bore	8	106FB
12G	Tail Take-up Bracket	2	
13G	5/8" Take-up All Thread Bolt with nuts	2	122FB



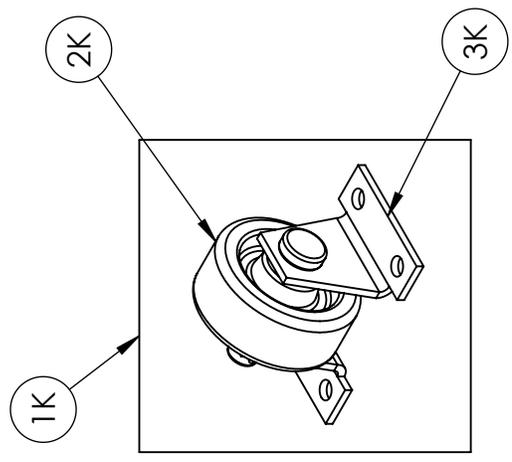
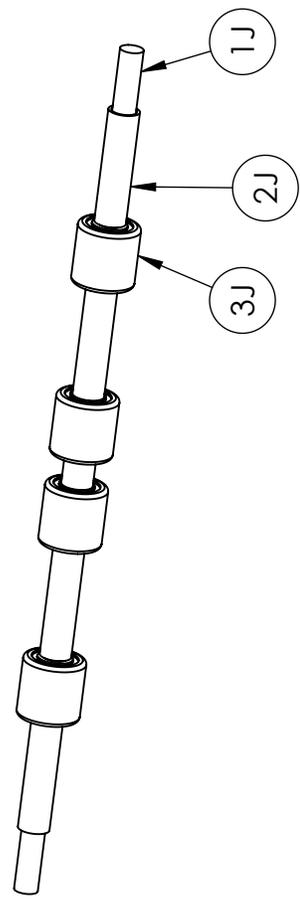
# PARTS IDENTIFICATION : Extension Drive Assembly

Extension Drive Assembly			
NO.	DESCRIPTION	QTY	PART NO.
1H	FBR Hydraulic motor 6 cu. In.	1	13BB
2H	60B10 x 1" Bore Sprocket	2	17DA
3H	1" Extension Drive Shaft	1	
4H	EXT Drive Gear x 1" Bore	2	
5H	Steel Hydraulic line for Extension Motor	2	



# PARTS IDENTIFICATION : Belt Saddle Hold Down Roller Assembly

Belt Hold Down Roller Assembly			
NO.	DESCRIPTION	QTY	PART NO.
1J	3/4" OD Hold Down Roller Shaft	1	
2J	HoldDown Roller Spacer Kit	1	
3J	2" x 3/4" Bore Roller	4	

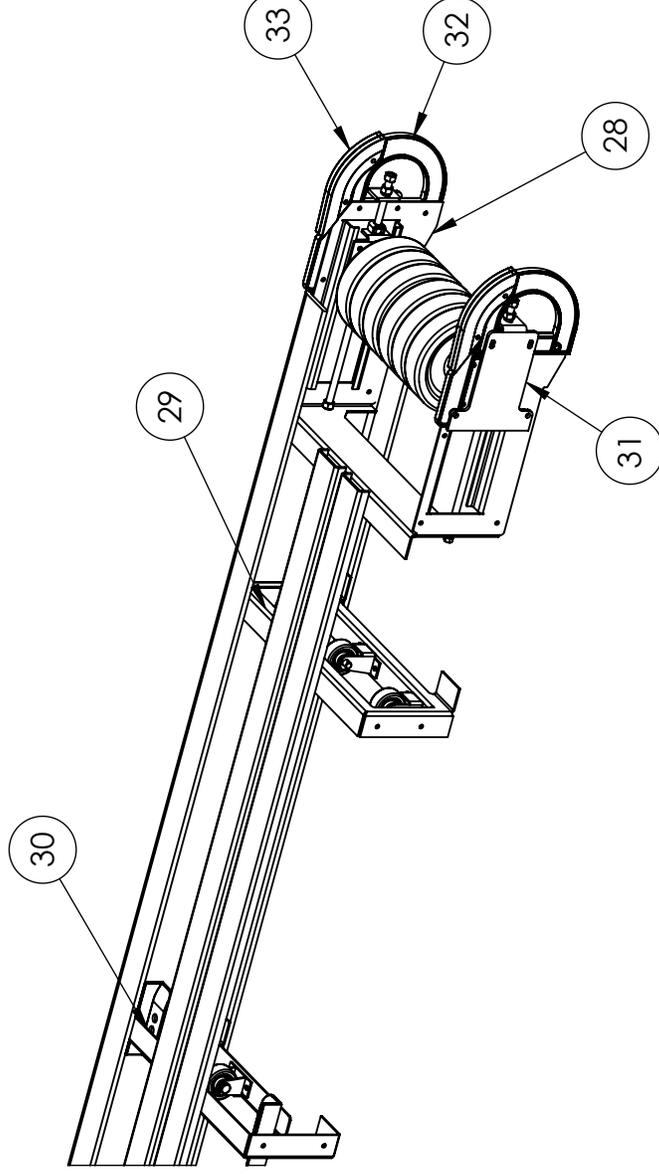


Saddle Return Roller Assembly			
NO.	DESCRIPTION	QTY	PART NO.
1K	Saddle Return Roller Assembly Complete	-	
2K	2-1/2" Roller - 1/2" Bore with pin and Cotter	1	
3K	Saddle Return Roller Bracket only	2	5VAABU



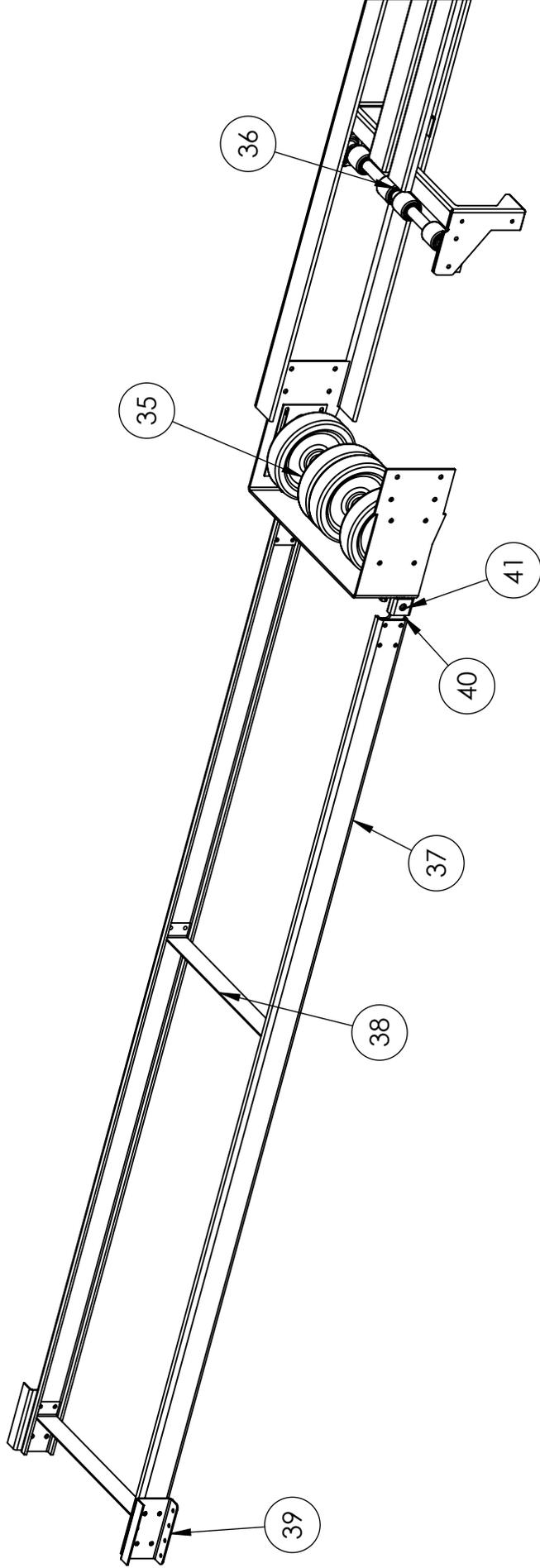
# PARTS IDENTIFICATION : Extension Boom Nose End

Extension Boom Nose Pulley Assembly				
NO.	DESCRIPTION	QTY	PART NO.	DETAIL
28	Nose Pulley Assembly	1		X13
29	Nose End Frame Assembly	1		X14
30	Extension Frame Assembly	1		X15
31	NoseLoop Adjuster Bracket	2	5VAABN	
32	FBR Nose Loop	2	124FB	
33	FBR Nose Loop Wear Plate	4		



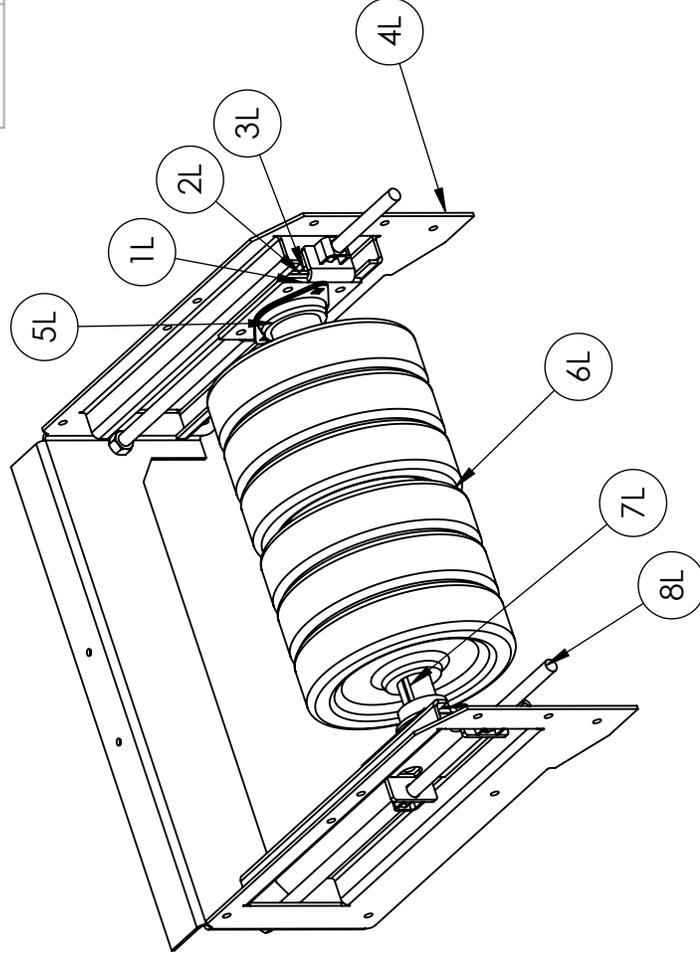
# PARTS IDENTIFICATION : Extension Boom Tail End

Extension Boom Tail End			
NO.	DESCRIPTION	QTY	PART NO. DETAIL
35	Extension Tail End Pulley Assembly	1	X16
36	Belt Hold Down Frame Assembly	1	X17
37	Extension Arms	2	
38	Extension Arm CrossMember	2	5VAAAP
39	Extension Arm Chain Bracket	2	5VAABH
40	Extension Arm Attachment bracket	2	5VAACD
41	Pin for Extension Arm Attachment (5/8" OD)	2	



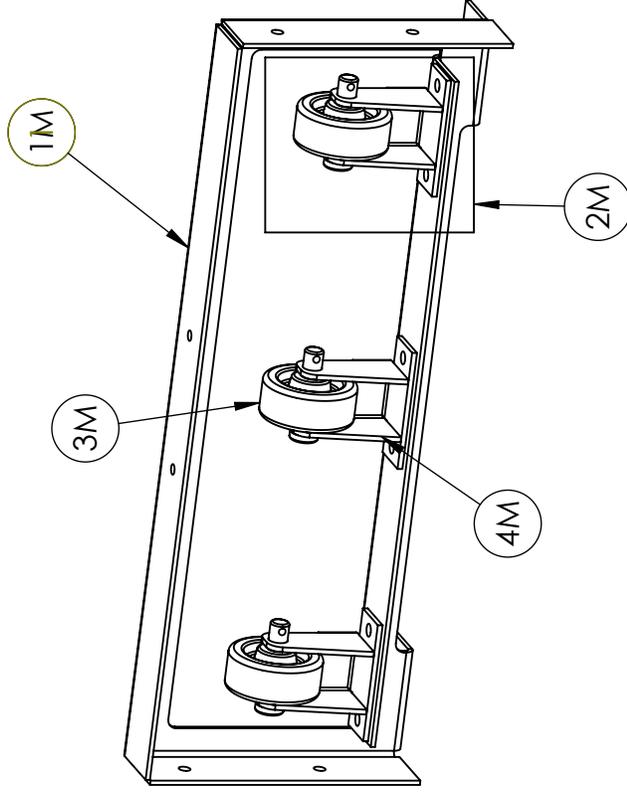
# PARTS IDENTIFICATION : Nose Pulley Assembly

Nose Pulley Assembly		
NO.	DESCRIPTION	PART NO.
1L	Nose Inner Bearing Plate	5VAABK
2L	Nose Middle Bearing Plate	5VAABL
3L	Nose Outer Bearing Plate	5VAABM
4L	Nose Pulley Frame	5VAABO
5L	8" Rubber Pulley Wheel x 1-1/4" Bore	106FB
6L	1-1/4" Nose Pulley Shaft	



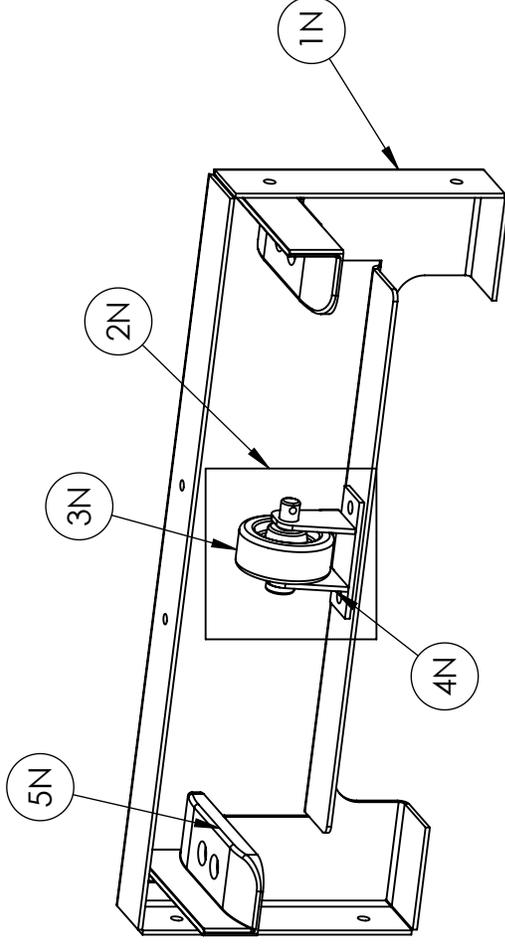
# PARTS IDENTIFICATION : Nose End Frame Assembly

Nose End Frame Assembly			
NO.	DESCRIPTION	QTY	PART NO.
1M	Nose End Frame	1	5VAAAU
2M	Return Roller (Tall) Assembly Complete	-	
3M	2-1/2" Roller - 1/2" Bore with Pin and cotter	3	
4M	EXT Return Roller Bracket (tall)	3	5VAABJ



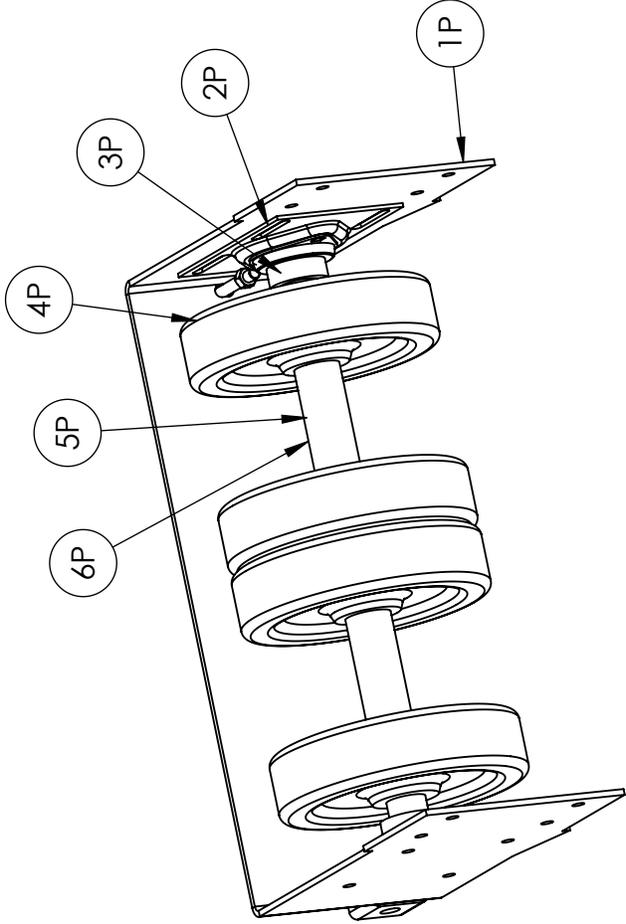
# PARTS IDENTIFICATION : Extension Frame Assembly

Extension Crossmember Frame Assembly			
NO.	DESCRIPTION	QTY	PART NO.
1N	Extension Crossmember Frame	1	5VA4AAV
2N	Return Roller (Short) Assembly Complete	-	
3N	2-1/2" Roller - 1/2" Bore with pin and cotter	3	
4N	EXT Return Roller Bracket (Short) only	3	5VAABI
5N	Tracking Angle	2	133AFB



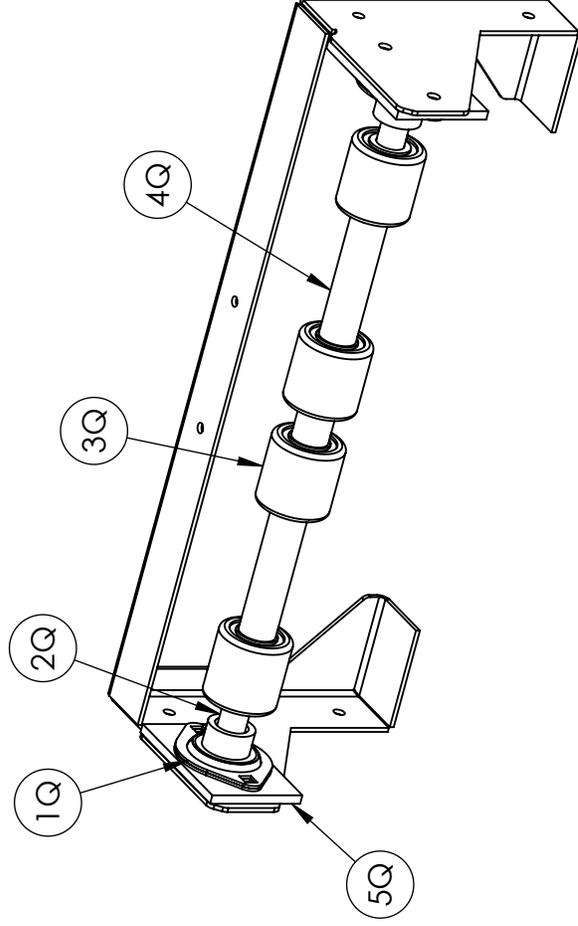
# PARTS IDENTIFICATION : Extension Tail End Assembly

Extension Tail Pulley Assembly		
NO.	DESCRIPTION	PART NO.
1P	Extension Tail Pulley Frame	5VAAAAD
2P	MSTU-62 with adjuster Bolt	16BF
3P	1-1/4" Insert Bearing with Flangette	16AFA
4P	8" Diameter Pulley Wheel x 1-1/4" Bore	106FB
5P	Pulley wheel Spacer Kit	
6P	1-1/4" Diameter Extension Tail Pulley Shaft	



## PARTS IDENTIFICATION : Extension Hold Down Roller Assembly

Extension Hold Down Roller Assembly			
NO.	DESCRIPTION	QTY	PART NO.
1Q	3/4" Insert Bearing with Flangett(2)	2	16ADA
2Q	3/4" Extension Roller Shaft	1	
3Q	2" Idler Roller x 3/4" Bore	4	
4Q	Extension Roller spacer Kit	1	
5Q	#47 Bearing Spacer Plate	2	120FB



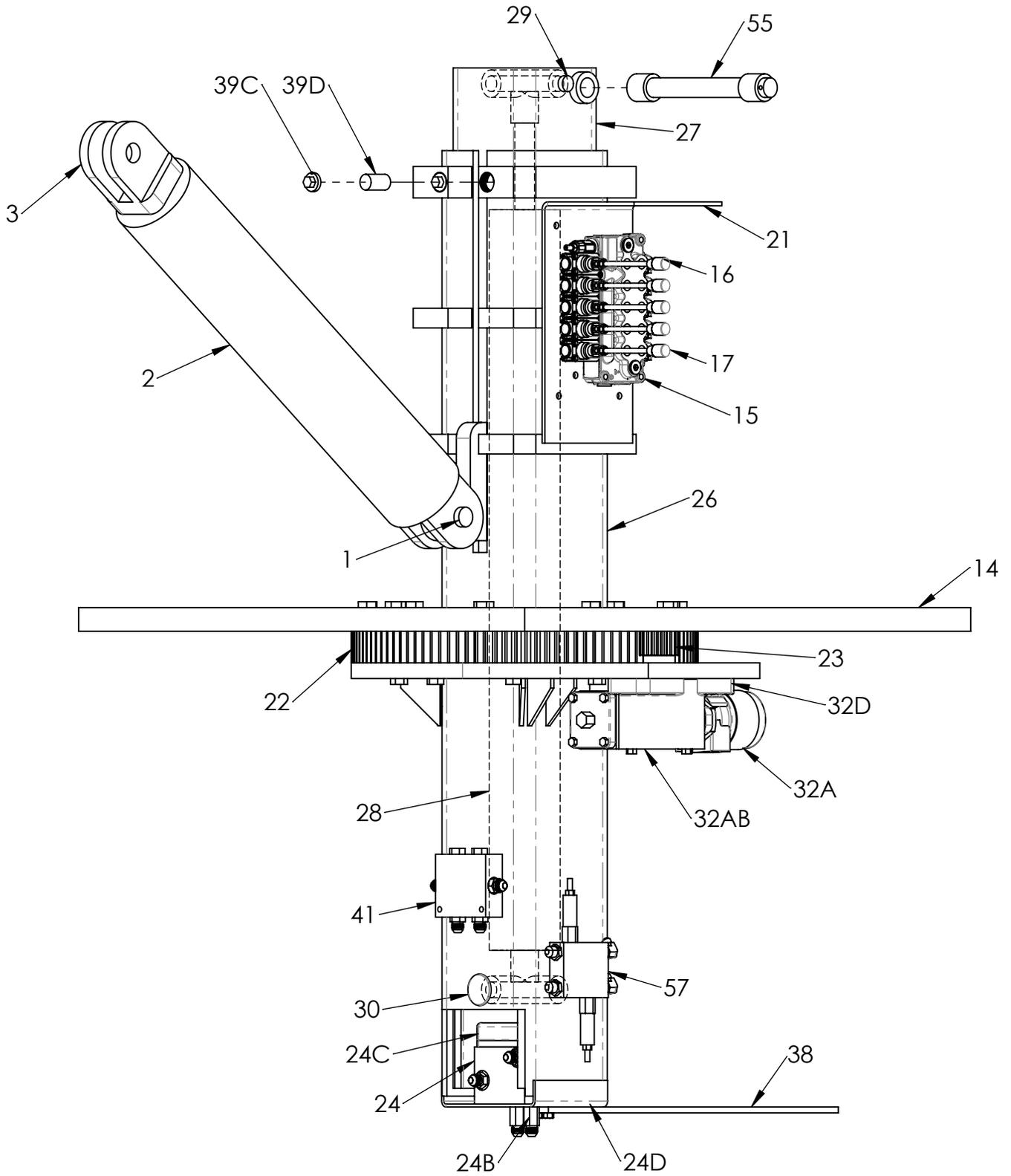
## HXDRTH-4000 PARTS IDENTIFICATION

<b>ITEM#</b>	<b>PART#</b>	<b>DESCRIPTION</b>
1	14DCA	1-1/4" DIAMETER CYLINDER PIN
2	14BE	EXT BOOM CYLINDER
3	14EA	CLEVIS BOOM CYLINDER
13	05FL	1/4"X 3 1/2 " HEX BOLT
14	03BKA	BASE PLATE WITH BOLT CIRCLE (1-1/4"X 36 X 42)
15	12MAA	FIVE SPOOL HYDRAULIC VALVE WITH HANDLES
15A	12MT	SEAL KIT FOR INDIVIDUAL SPOOL (5USED)
15B	12MU	SPRING KIT FOR 5-SPOOL VALVE
15C	12MV	DETENT KIT FOR 5-SPOOL VALVE
15D	12MZ	SPOOL ONLY FOR 5-SPOOL VALVE
16	120B	STANDARD HANDLE (SPECIFY FUNCTION)
17	120E	ROTATION HANDLE
18	12QB	PLASTIC CAP FOR VALVE HANDLE
19	12PA	STANDARD HOUSING
20	12PB	ROTATION HOUSING
20A	12PC	RUBBER BOOT ONLY FOR HOUSING
21	5NCA	VALVE GUARD WITH DECALS
22	19MB	22" O.D. GEARED BEARING (1/2" BOLT PATTERN 2640.00)
23	23AFAA	15 TOOTH PINION GEAR (SPECIFY RTH OR G9RL)
24	14GA	HYDRAULIC SWIVEL
24A	14GB	SWIVEL SEAL KIT
24B	10EOA	HYDRAULIC FITTING FOR BOTTOM OF SWIVEL
24C	29BCS	PLASTIC SWIVEL CAP
24D	14GE	SWIVEL MOUNTING BRACKET
25A	12MH	MANIFOLD RELIEF CARTRIDGE FOR CROSS PORT
25B	12MI	MANIFOLD WASHER WITH O-RING
26	19QU	8"OUTER POST AND PLATE (XHDRTH-4000)
27	19QT	7" INNER POST TUBE (XHDRTH-4000)
28	14BJ	3 X 48 INNER POST CYLINDER (XHDRTH-4000)
28A	14CH	SEAL KIT FOR 3 X 48 INNER POST CYLINDER
29	01CEG	1"X 7 1/2 " PIN WITH WASHER & COTTER
30	01CES	1"X 8 5/8" BOTTOM PIN WITH WASHER & COTTER
31		SOLENOID VALVE FOR BELT HYD MOTOR
32	19GAA	GEAR BOX DRIVE WITH HYD MOTOR AND PINION GEAR
32A	131CM	HYDRAULIC MOTOR FOR GEAR BOX
32AB	13TGA	GEAR BOX ONLY COMPLETE WITH PINION GEAR
32B	13BAA	SEAL KIT FOR HYDRAULIC MOTOR FOR GEAR BOX
32C	13TGB	SEAL KIT FOR GEAR BOX
32D	03AHB	ADAPTER PLATE FOR GEAR BOX ON RTH TURNTABLE
32DA	04AHB	GASKET FOR COVER PLATE ON GEAR BOX

## HXDRTH-4000 PARTS IDENTIFICATION

<b>ITEM#</b>	<b>PART#</b>	<b>DESCRIPTION</b>
32E	13THG	RELIEF PLUG ONLY FOR GEAR BOX
32F	13THF	RELIEF PLUG WITH BUSHING FOR GEAR BOX
32H	13BF	½ " X 6" NF BOLTS W/NUTS FOR BRAKE MOTOR
35	06BA	1/4"-28 X 1 1/8" GREASE ZIRK
36	29KA	0-3000 LB. PRESSURE GAUGE
36A	10EZ	1/4" CD 1/4" MX 1/4" F ELBOW
37	19TXA	MOUNTING KIT FOR TURNTABLE (STUDS & BLOCKS)
37A	19TXC	MOUNTING BOLT ONLY FOR TURNTABLE
38	14GC	SWIVEL BAR WITH BOLTS AND SPACERS
39B	19TGB	WEAR PLUG KIT COMPLETE (CAPS,PLUGS)
39C	091NA	CAP ONLY FOR WEAR PLUG
39D	25DBAA	WEAR PLUG ONLY (TEFLON)
40	12PD	RELIEF CARTRIDGE FOR 5-SPOOL VALVE
41	12AB	CHECK VALVE FOR INNER POST CYLINDER
42	12FB	VELOCITY FUSE FOR CONVEYOR CYLINDER
42A	12FC	HOSE FROM 5-SPOOL VALVE TO VELOCITY FUSE
42B	12FD	1/32" RESTRICTED ORIFICE
43	14GD	1/2 " X 90 HYD HOSE OFF SWIVEL TO 5-SPOOL VALVE
44	14GI	1/4" HYD. HOSE FROM INNER CYL. TO CHECK VALVE
45	14GK	COMPLETE HOSE KIT FOR XHDRTH-4000
46	29KB	SIGHT GAUGE FOR HYDRAULIC RESERVOIR
47	13AG	DIRECT DRIVE PUMP &RESERVOIR
48	13AH	DIRECT DRIVE PUMP ONLY
48A	13AHB	SEAL KIT FOR DIRECT DRIVE PUMP
49	13AJ	RESERVOIR 15 GALLON FOR DIRECT DRIVE PUMP
49A	13AJA	REPLACEABLE FILTER FOR 15 GALLON RESERVOIR
49B	13AK	CAP FOR 15 GALLON RESERVOIR
49C	13AJD	GASKET FOR 15 GALLON RESERVOIR
53	11MZZ	BLUE HOSE COVER FOR HOSES ON 5-SPOOL VALVE
54	06DZA	U-BOLT CLAMP FOR HOSES ON POST OF TURNTABLE
56	01CDC	1-1/4" X 3 ½ " PIN WITH WASHER &COTTER
55	01CGC	1 1/4" X 14" SADDLE PIN
57		CROSS PORT RELIEF VALVE

# HXDRTH-4000 PARTS IDENTIFICATION



# SECTION SIX

## HYDRAULIC OUTRIGGERS

### INTRODUCTION

### INSTALLATION

Outrigger Frame Mounting	6-1
Mounting the Control Valve	6-2
Connecting Hydraulic Lines	6-3
Testing the System	6-4

### OPERATION

Extending and Lowering the Outriggers	6-4
Raising and Retracting the Outriggers	6-4

### MAINTENANCE

Daily Maintenance	6-5
Weekly Maintenance	6-5
Annual Maintenance and Preparation for Storage	6-5

### PARTS LIST

Structural Components Parts	6-7
Hydraulic System Parts	6-8
Stabilizer System Parts	6-9
Extension System Parts	6-10



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801-773-1311 \* 800-453-2446 \* Fax 801-773-3249

Cleasby Conveyors (EXT REV 17.1 - October 2017)



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## INTRODUCTION

Cleasby Conveyors, (CM) recommends Outriggers be installed on all trucks with mounted conveyors. Outriggers provide (1) substantially improved stability under all conditions; (2) permit use of the conveyor when the ground is uneven; and (3) provide additional margins of safety against the truck tipping over. All of this adds up to safer operation and avoiding the possibility of injury or damage to equipment.

---

**PLEASE READ AND FOLLOW THE INSTALLATION PROCEDURE BELOW**

---

## INSTALLATION

### OUTRIGGERS FRAME MOUNTING

(See Figure 7-1)

- 1.) Remove and discard the two knock-out braces which were inserted for purposes of shipping.
- 2.) With the truck unloaded and located on level ground, slide the open end of the Outrigger frame upward over the truck chassis forward of the turntable post.
- 3.) Block-up the Outrigger frame with the slides vertical and the bottom of the frame approximately twelve (12) inches off the ground (this may vary depending upon the type of truck). The rear side of the frame should be 6 to 12 inches forward of the turntable post. Adjust position to avoid interference with attachments to the chassis frame. The bottom of the frame must be level in all directions.
- 4.) Weld the Outrigger frame to the chassis frame and to the bed frame, if possible, using full weld beads. Use eight beads with a minimum throat of 1/4 inch (See Figure 7-1)

**(CM) recommends shielded arc welding to insure adequate penetration. If only MIG welding is available, use only at high heat. Only certified welders should perform welding.**

- 5.) Let cool. Clean weld and paint as necessary.
- 6.) Select a highly visible spot in the vehicle cab, clean the area thoroughly and apply the warning label supplied, (See Section One, Warnings and Cautions, Labels to Be Placed by you or the Installer).
- 7.) Please see OSHA 29 CFR 1926.1400.

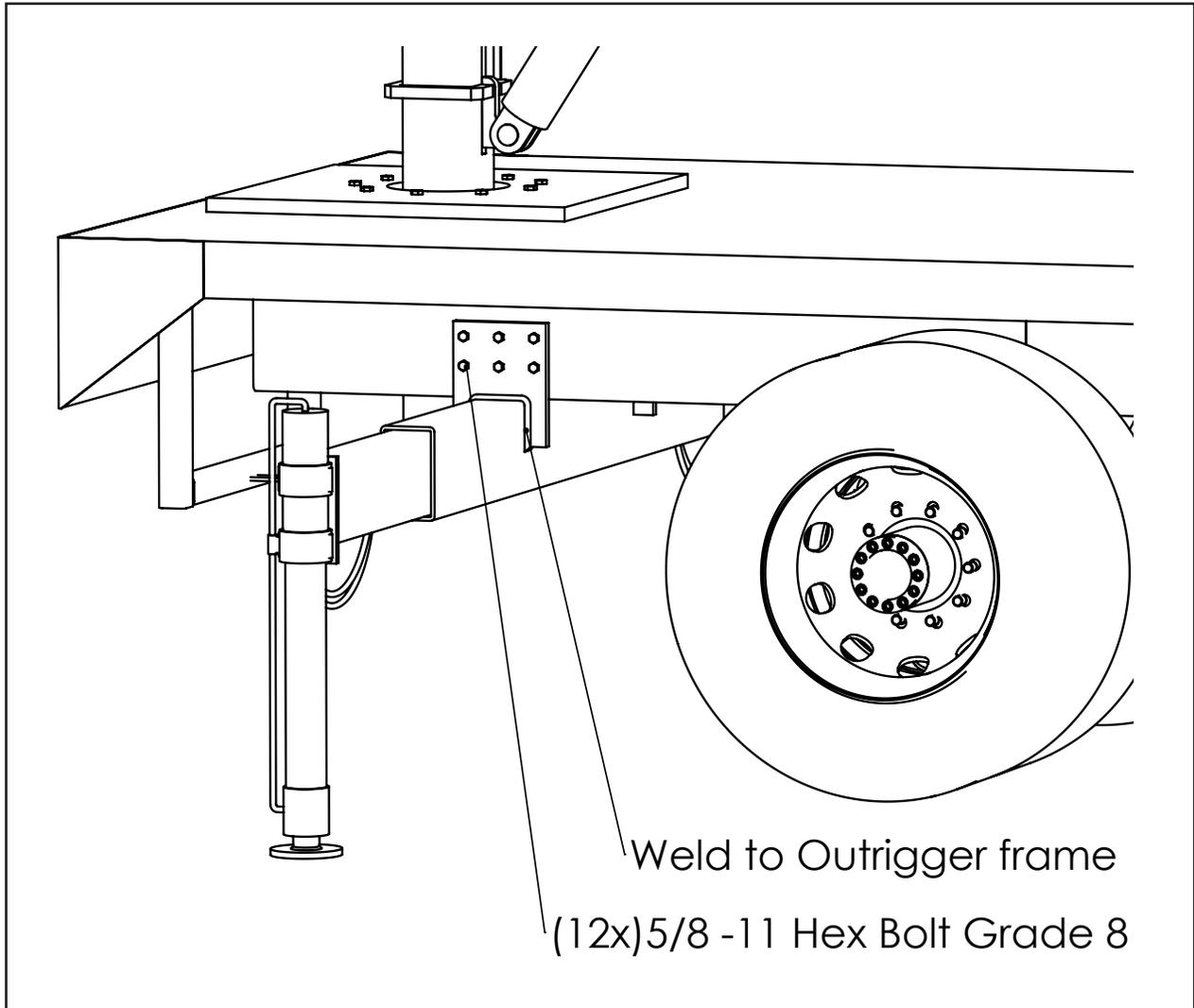
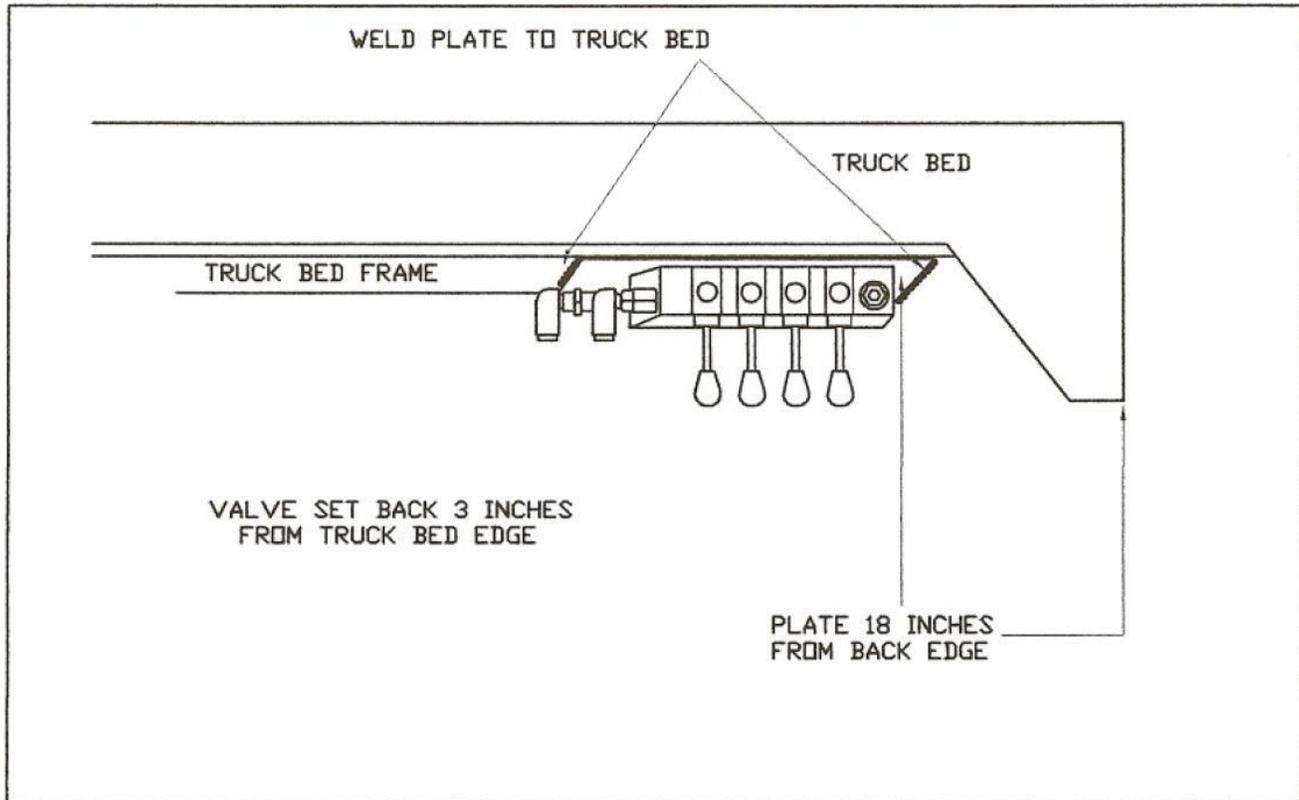


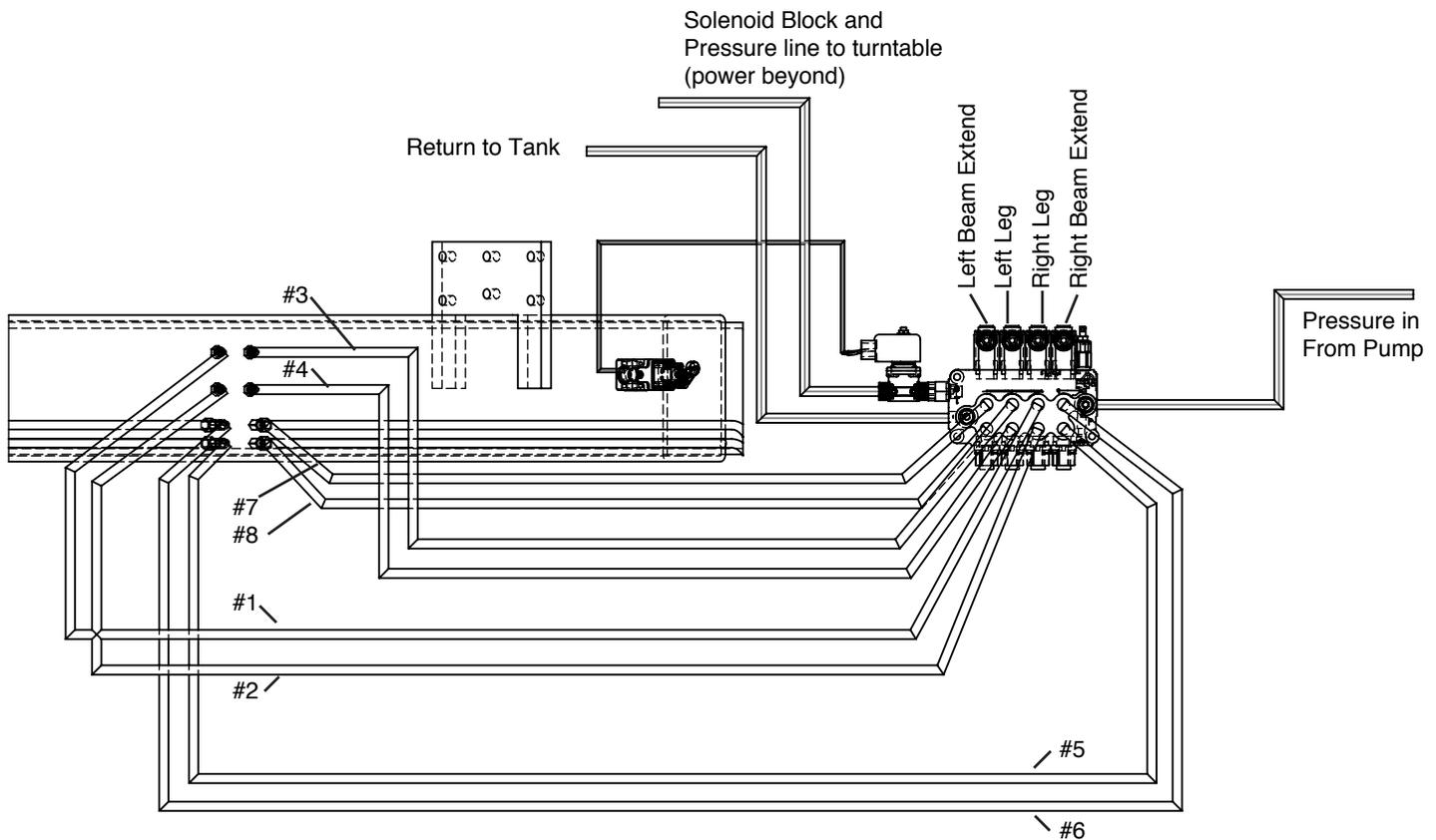
Figure 7-1



**Figure 6-2**

### **MOUNTING THE CONTROL VALVE**

- 1.) Position the control valve bracket on the left (driver's side) of the truck bed frame. Locate the rear edge of the plate (single bolt) 12 inches from the rear of the truck bed. The two bolt side of the plate should be toward the front. The edge of the plate should be about 3 inches in from the edge of the truck bed.
- 2.) Clamp or hold in place and weld in place with beads along the front and back sides of the plate.
- 3.) Clean and paint as needed.
- 4.) Install the control valve to the mounting plate with flat washer, lock washers and nuts.



## Connecting Hydraulic Lines

### Right Outrigger Extension Arm (2 hoses)

1.) Connect hose from right extend fitting No.1 to right extend valve port. Connect hose from right extend fitting No. 2 to right extend valve port.

### Left Outrigger Extension Arm (2 hoses)

2.) Connect hose from left extend fitting No.3 to left extend valve port. Connect hose from left extend fitting No. 4 to left extend valve port.

### Right Outrigger Lowering Leg (2 hoses)

3.) Connect hose from left lowering fitting No.5 to left lowering valve port. Connect hose from left lowering fitting No. 6 to right lowering valve port.

### Left Outrigger Lowering Leg (2 hoses)

4.) Connect hose from right lowering fitting No.7 to right lowering valve port. Connect hose from right lowering fitting No. 8 to right lowering valve port.

### Valve, Power Beyond, Solenoid, Return

5.) Connect hose from return port to a tee in the line from the turntable return to the hydraulic tank return (1 hose)

6.) Connect solenoid needle valve to power beyond port.

7.) Connect Wires from Limit switch to solenoid valve

8.) Connect hose from the power beyond port to pressure inlet port on turntable (1 hose).

9.) Connect hose from the valve's pressure port to pressure port on hydraulic pump (1 hose).

## Testing the System

- 1.) With the truck engine operating at idle, engage the P.T.O. and slowly operate the control valves to bleed the air from the hydraulic system. Recheck hydraulic oil level in reservoir. Fill as required.
- 2.) Inspect all connections for leaks.

- 3.) Raise and lower each outrigger several times.
- 4.) Be sure the conveyor hydraulic system operates correctly.

## OPERATION

Outriggers increase the stability of truck-mounted conveyors. Outriggers also can help in leveling the truck on slightly irregular ground. If ground is soft, place blocking under the outrigger feet to spread the load.

### Extending and Lowering the Outriggers

- 1.) Set up a safety zone around the truck at least 10 feet beyond the end of the conveyor and extending up twice the length of the conveyor.
- 2.) Set the brakes on the truck and place the transmission in neutral. Engage the power takeoff and run the engine at idle speed.
- 4.) Push down on the valve handle to extend the left outrigger outward. Do the same for the right side.
- 5.) Push down on the valve handle to lower the left outrigger leg until the truck lifts slightly.
- 6.) Push down on the valve handle to lower the right outrigger leg until the truck bed is level.

- 7.) If the ground is soft, place planks or blocks under the outrigger feet for greater stability.
- 8.) Lower the outrigger legs only enough to stabilize the truck. Do not raise the truck wheels clear of the ground.

### Raising and Retracting the Outriggers

- 1.) Stow the conveyor in its rack on the headboard at the front of the bed.
- 2.) Push up on the valve control handle to raise the right outrigger. Raise it until the outrigger retracts all the way. Push up on the valve control handle to retract the outrigger back inward to the truck.
- 3.) Push up on the valve control handle to raise the left outrigger. Raise it until the outrigger retracts all the way. Push up on the valve control handle to retract the outrigger back inward to the truck.
- 4.) Stop the engine and disengage the power takeoff.

**NOTICE**

NEVER DRIVE THE TRUCK OR RACE THE ENGINE WHILE THE P.T.O. IS ENGAGED. THE PUMP IS INSTALLED TO OPERATE AT THE CORRECT SPEED AND TO PRODUCE SUFFICIENT OIL FLOW WHEN THE TRUCK IS IDLING. IF THE TRUCK IS DRIVEN OR THE MOTOR RACED WHILE THE PTO IS ENGAGED, THE PUMP MAY BE DAMAGED OR THE DRIVE LINE MAY FLY APART

**MAINTENANCE**

1.) Check to see that cotter pins or hairpin clips secure all hinge pins.

2.) Inspect hydraulic hoses for damage or leaks.

**Weekly Maintenance**

1.) Check to see that cotter pins or hairpin clips secure all hinge pins. Check pins for wear.

2.) Inspect hoses and fittings for damage or leaks.

3.) Check and tighten all bolts and nuts.

**Annual Maintenance and Preparation for Storage**

1.) Check cylinder seals and valve seals for leakage.

2.) Tighten bolts securing cylinder ends. 3.) Replace any worn hinge pins.

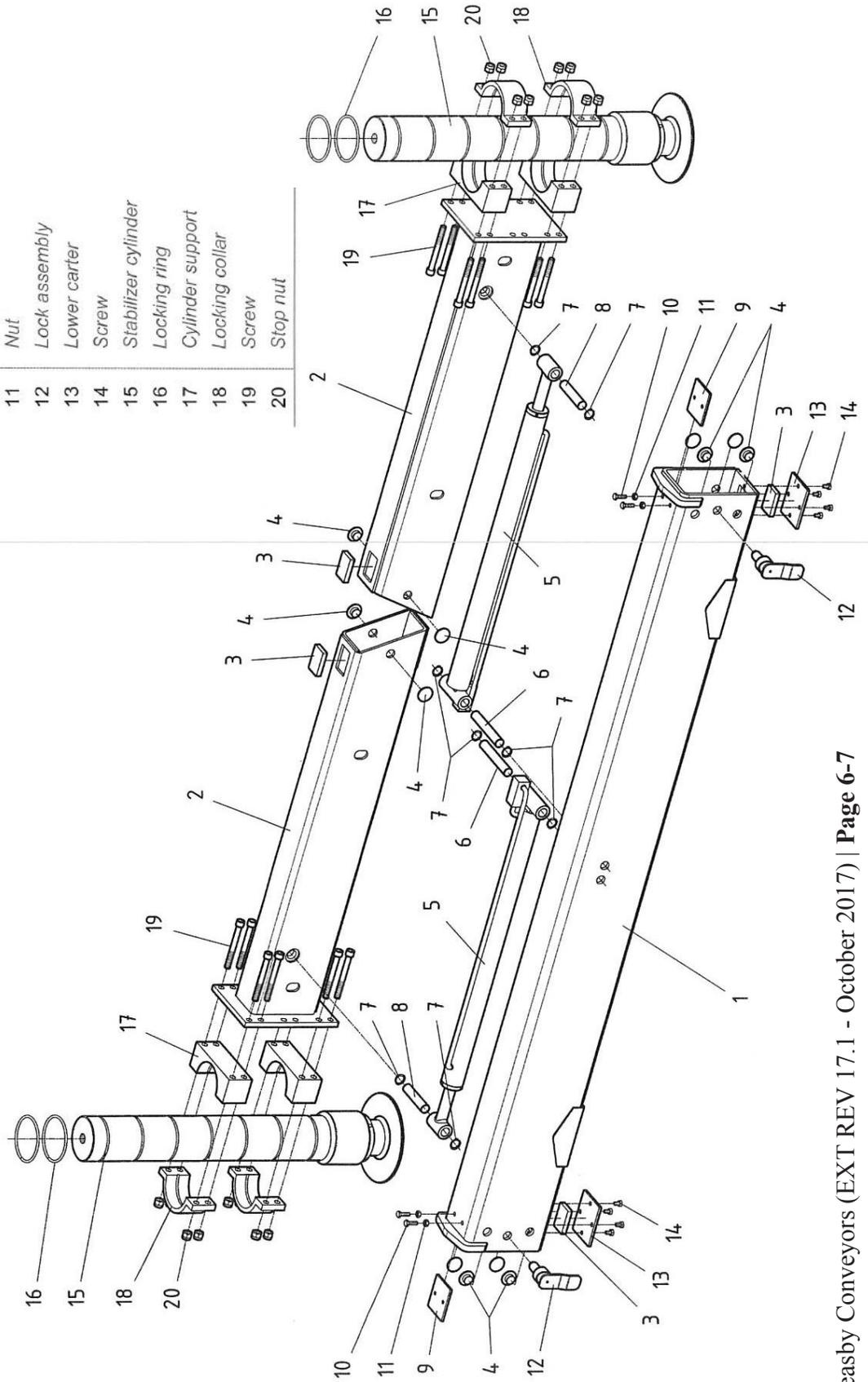
4.) Before storing, retract outriggers to retract cylinder rods. Coat exposed rods with hydraulic fluid.

5.) Please see OSHA 29 CFR 1926.1400.

*...See next page for Parts List*

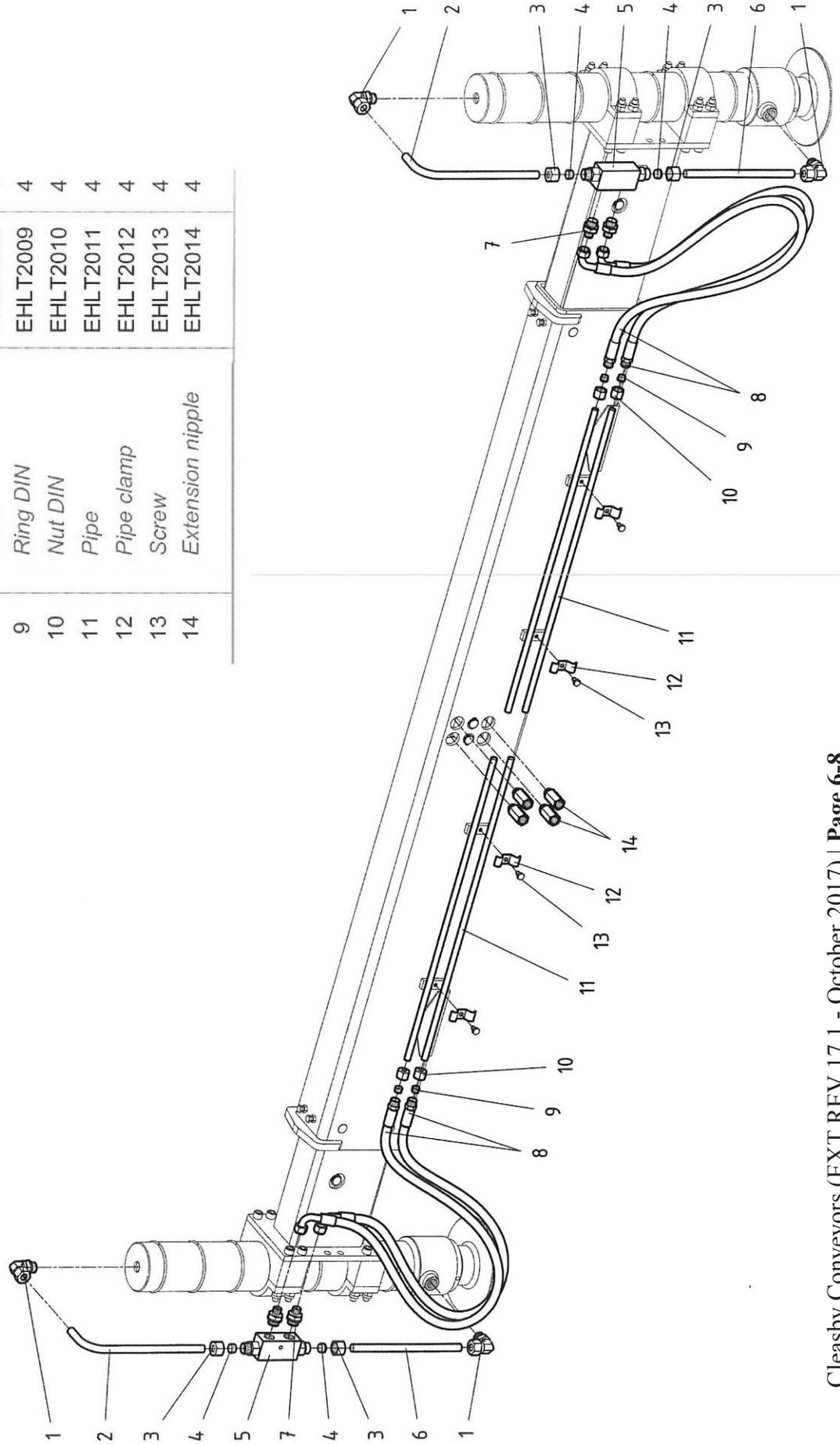
**EXT-52 OUTRIGGER  
PARTS IDENTIFICATION  
08/28/17  
STRUCTURAL COMPONENTS**

Pos.	Description
1	Main beam
2	Rod
3	Sliding block
4	Lateral sliding block
5	Extension cylinder
6	Pin
7	Snap ring
8	Pin
9	Support plate
10	Screw
11	Nut
12	Lock assembly
13	Lower carter
14	Screw
15	Stabilizer cylinder
16	Locking ring
17	Cylinder support
18	Locking collar
19	Screw
20	Stop nut



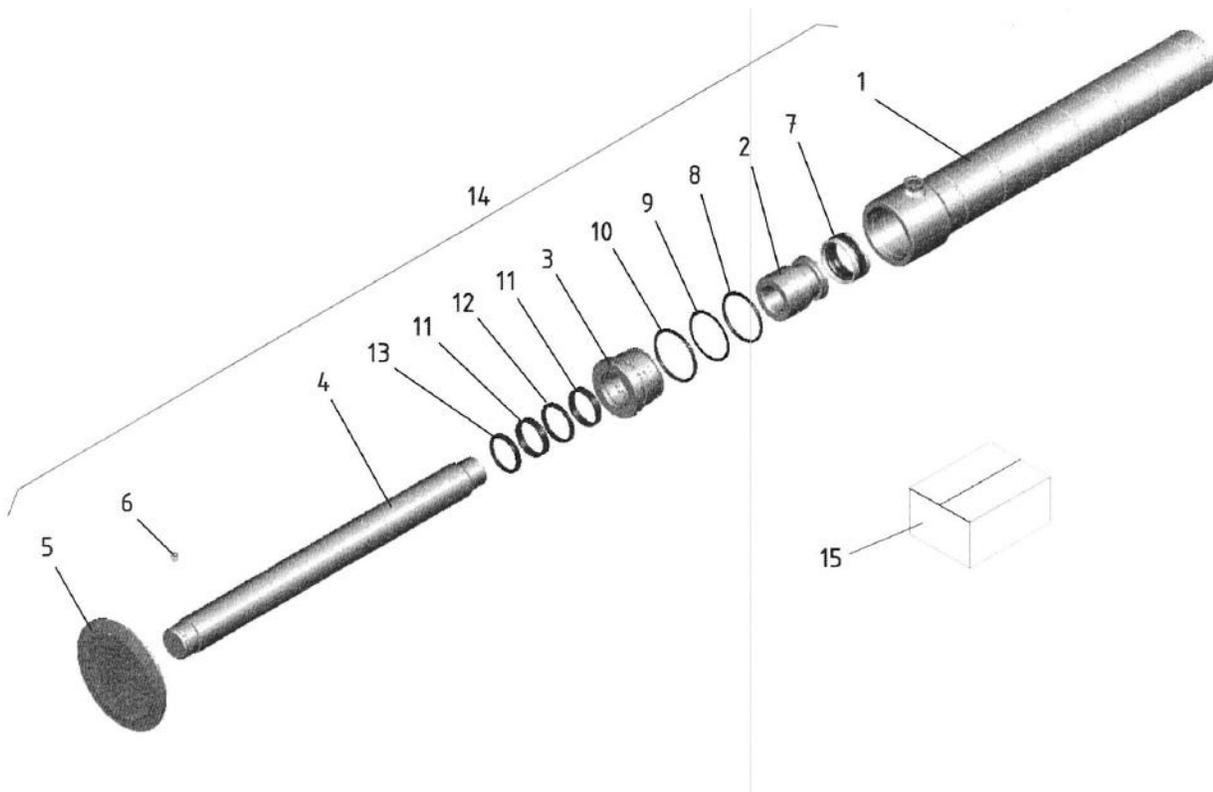
**EXT-52 OUTRIGGER  
PARTS IDENTIFICATION  
08/28/17  
HYDRAULIC SYSTEM PARTS**

Pos.	Description	Cod.	Qt.
1	Pipe fitting 90°	EHLT2001	4
2	Pipe	EHLT2002	2
3	Nut DIN	EHLT2003	4
4	Ring DIN	EHLT2004	4
5	Safety valve	EHLT2005	2
6	Pipe	EHLT2006	2
7	Nipple	EHLT2007	4
8	Hose	EHLT2008	4
9	Ring DIN	EHLT2009	4
10	Nut DIN	EHLT2010	4
11	Pipe	EHLT2011	4
12	Pipe clamp	EHLT2012	4
13	Screw	EHLT2013	4
14	Extension nipple	EHLT2014	4



**EXT-52 OUTRIGGER  
PARTS IDENTIFICATION  
08/28/17  
STABILIZER CYLINDER**

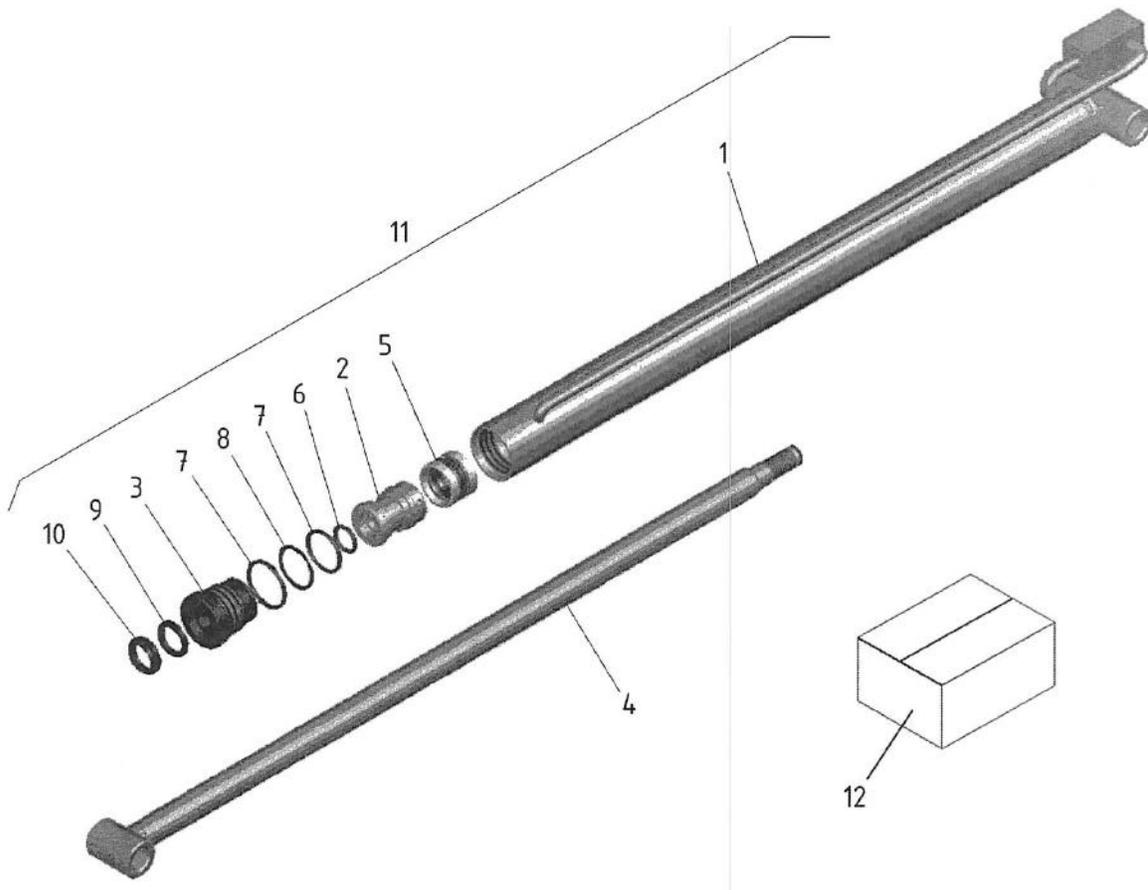
<i>Pos.</i>	<i>Description</i>	<i>Cod.</i>	<i>Qt.</i>
1	<i>Liner</i>	EHLT3001	1
2	<i>Piston</i>	EHLT3002	1
3	<i>Bushing</i>	EHLT3003	1
4	<i>Rod</i>	EHLT3004	1
5	<i>Support plate</i>	EHLT3005	1
6	<i>Screw</i>	EHLT3006	1
7	<i>Seal</i>	EHLT3007	1
8	<i>O-ring</i>	EHLT3008	1
9	<i>Bull ring</i>	EHLT3009	1
10	<i>O-ring</i>	EHLT3010	1
11	<i>Guide ring</i>	EHLT3011	2
12	<i>Seal</i>	EHLT3012	1
13	<i>Wiper ring</i>	EHLT3013	1
14	<i>Cylinder complete</i>	EHLT3014	-
15	<i>Seal kit</i>	EHLT3015	1



**EXT-52 OUTRIGGER  
PARTS IDENTIFICATION  
08/28/17**

**EXTENSION CYLINDER**

<i>Pos.</i>	<i>Description</i>	<i>Cod.</i>	<i>Qt.</i>
1	<i>Liner</i>	EHLT4001	1
2	<i>Piston</i>	EHLT4002	1
3	<i>Bushing</i>	EHLT4003	1
4	<i>Rod</i>	EHLT4004	1
5	<i>Seal</i>	EHLT4005	1
6	<i>O-ring</i>	EHLT4006	1
7	<i>O-ring</i>	EHLT4007	2
8	<i>Bull ring</i>	EHLT4008	1
9	<i>Seal</i>	EHLT4009	1
10	<i>Wiper ring</i>	EHLT4010	1
11	<i>Cylinder complete</i>	EHLT4011	-
12	<i>Seal kit</i>	EHLT4012	1



# **SECTION SEVEN WARNING LABELS**

**TRUCK MOUNTED CONVEYORS  
EXT-52 FIBERGLASS SERIES  
TURNTABLE XDRTH-4000**



**362 South Main, Clearfield, UT 84015  
801-773-1311 \* 800-453-2446 \* Fax 801-773-3249**

Cleasby Conveyors (EXT REV 17.1 - October 2017)



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## SAFETY AND WARNING LABELS

### LABELS PLACED BY MANUFACTURER

Cleasby Conveyors (CM) places a number of warning labels on the conveyor and turntable to warn of dangers and to remind operators of correct operating procedures.

---

#### ***WARNING LABELS***

**The warning labels contain important warning information. Keep them visible and do not remove them.**

---

Instruct operators to review the warning labels daily as they start to make their deliveries. This daily review of safety precautions will help your operators be more safety conscious, reducing hazards to themselves, and to others who may work near the conveyor.

Use care when cleaning to avoid damage to the warning labels by strong solvents or steam. Mask each label carefully before painting the unit. If the labels become damaged or unreadable, replace them promptly.

### LABELS TO BE PLACED BY YOU OR YOUR INSTALLER

- 1.) Truck Cab Label. In addition to labels pre-installed on turntable and conveyor, Cleasby Conveyors provides two warning labels to attach to the dash of the truck (See #13 and #15). Mount these labels in clear view of the operator, and protect them from damage as described above.
- 2.) Truck Bed Label: Cleasby Conveyors also provides five (5) warning labels (see label #14 and #20) that must be placed at certain locations on the truck bed (See reference drawings for truck decal placement). These labels are 5 3/8 inches deep, so if the truck on which you are installing the conveyor is not thick enough to allow for good placement of these labels, mounting brackets for the labels are available from the manufacturer.

### DIAGRAMS:

Following are various figures depicting the turntable and conveyor. Cleasby has pre-installed labels on the actual turntable and conveyors of which the figures are representative. Leader lines or arrows on the diagram designate each labels identification number and proper location on the equipment.

At the time of delivery to you (and periodically thereafter) look at the equipment with the manual in hand, checking each label in turn until you are satisfied that all labels are there, and that they are all positioned as specified in the manual.

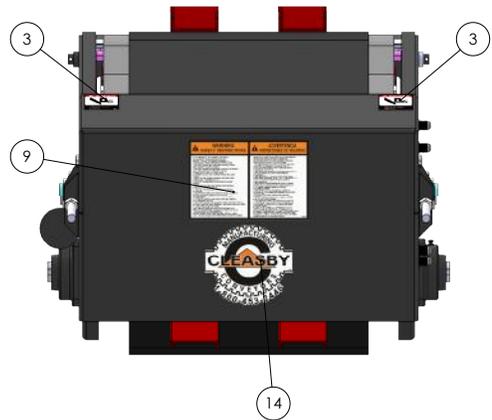
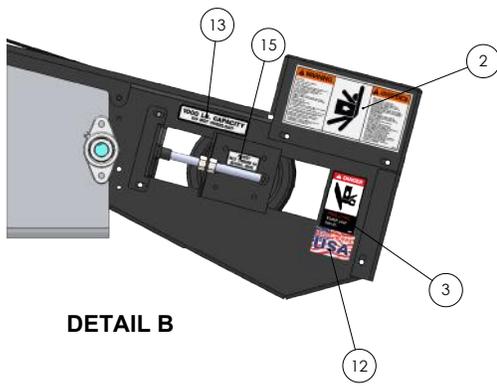
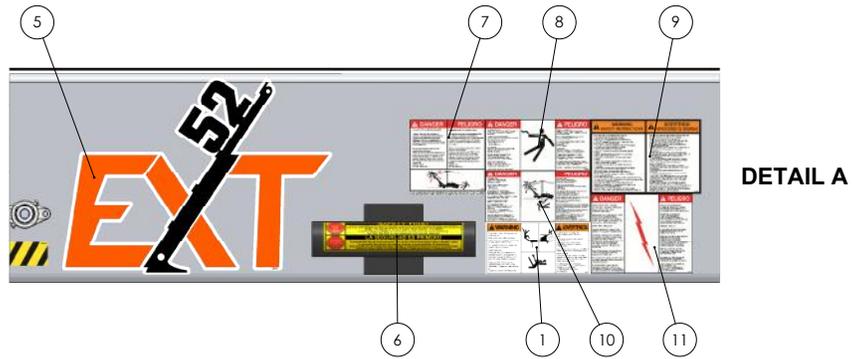
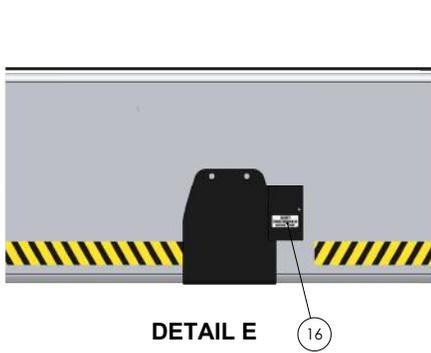
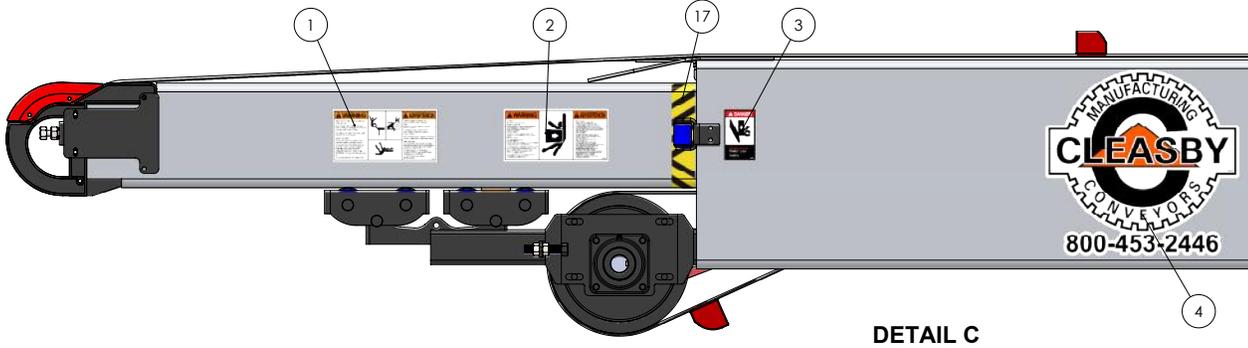
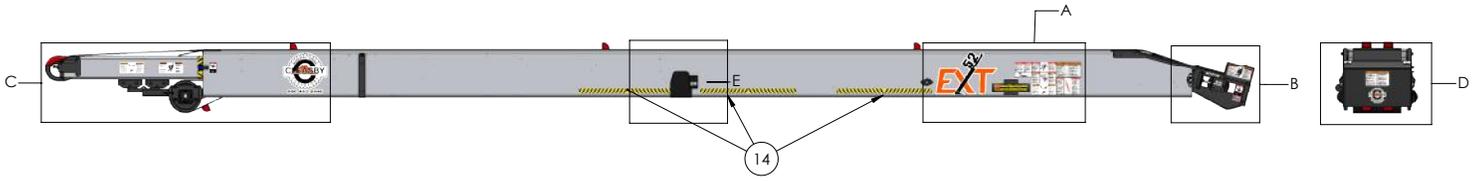
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#### NOTE

**Additional labels and truck bed mounting brackets are available free of charge. Call your local dealer, service center or distributor. If there is no dealer in your area, call Cleasby Conveyors (800) 453-2446.**

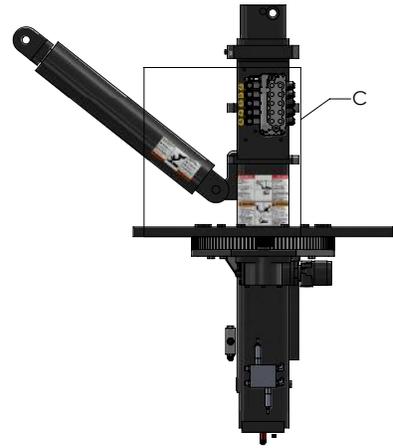
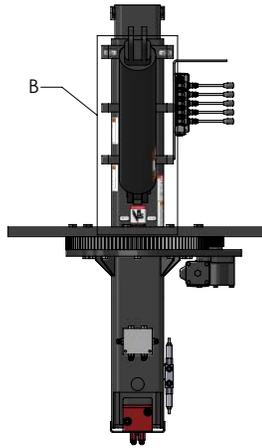
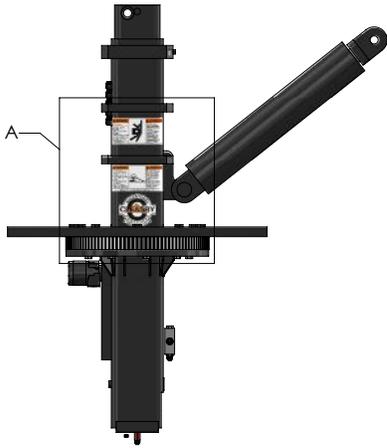
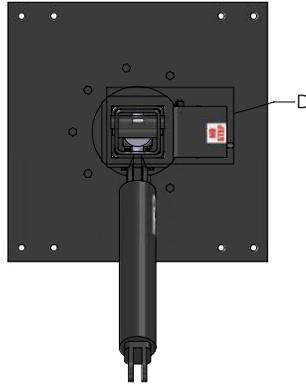
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# CLEASBY CONVEYORS EXT-52 DECAL PLACEMENT 08/28/17

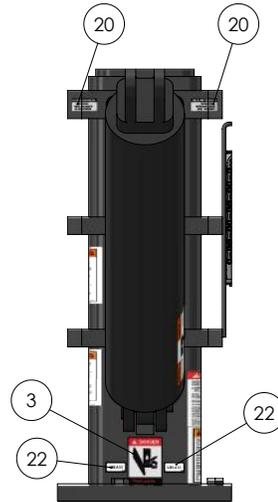


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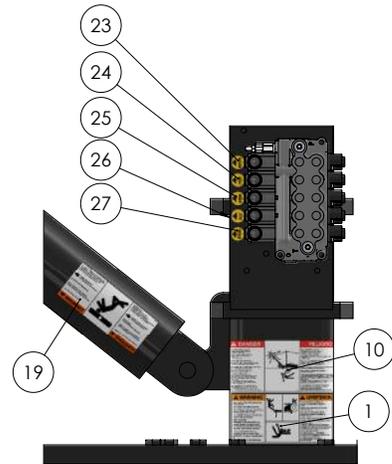
# CLEASBY CONVEYORS XHDRTH-4000 PLACEMENT 08/28/17



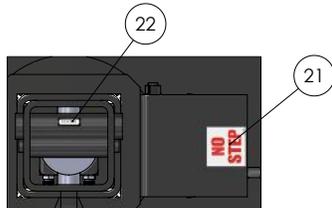
DETAIL A  
LEFT



DETAIL B  
FRONT



DETAIL C  
RIGHT

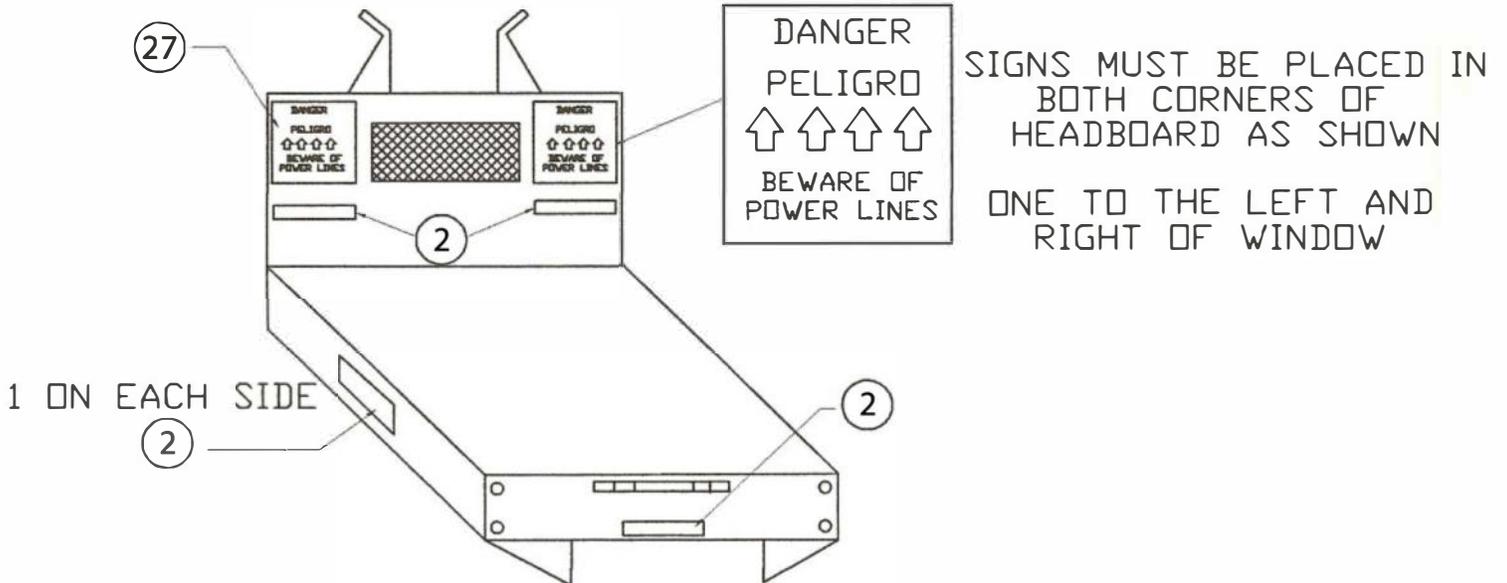
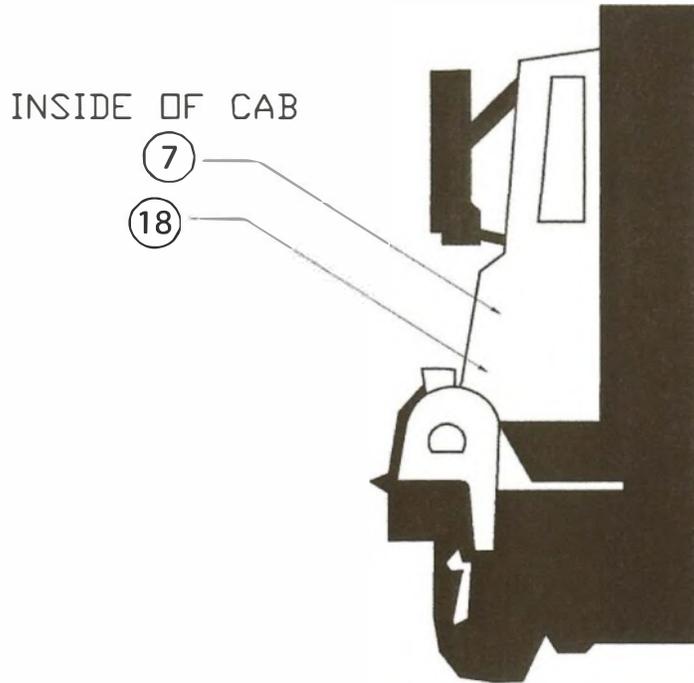


DETAIL D  
TOP



# TRUCK DECAL PLACEMENT

12-12-05



**CLEASBY CONVEYORS**

**362 S. MAIN, CLEARFIELD, UT 84015**

**801-773-1311 \* 800-453-2446 \* FAX 801-773-3249**

# CLEASBY CONVEYORS EXT-52 DECAL PLACEMENT 08/28/17

<b>⚠ WARNING</b>		<b>⚠ ADVERTENCIA</b>
<p>Open belt or chain. Moving parts can crush and cut.</p> <p>Keep hands clear while operating.</p> <p>Risk of falling or entanglement of limbs or body parts in belt or chain.</p> <p>It is unlawful to stand, lie, kneel, walk, crawl or ride on conveyor.</p> <p>ASME B20-2000 Personnel should be alerted to the potential hazard of entanglement in conveyors caused by items such as long hair, loose clothing or jewelry.</p> <p>If you are UNCLEAR or do not UNDERSTAND ANY PART of this WARNING - Contact the Manufacturer at 1-800-453-2446 for INFORMATION</p>		<p>Al abrir la correa o la cadena, las partes móviles pueden triturarse o cortar.</p> <p>Mantenga las manos alejadas mientras opera la máquina.</p> <p>Hay riesgo de caer o enredo de las extremidades o partes del cuerpo en la faja o cadena.</p> <p>Este prohibido pararse, acostarse, arrodillarse, caminar o viajar sobre la faja transportadora.</p> <p>ASME B20-2000 El personal debe estar alertado del peligro potencial del enredo en la faja transportadora causada por artículos tales como cabellos largos, ropa suelta y joyas.</p> <p>SI TIENE DUDAS o no ENTIENDE ALGUNA PARTE de esta ADVERTENCIA - Contáctese con el fabricante al 1-800-453-2446 para obtener INFORMACIÓN</p>

#1 22WAA

<b>⚠ WARNING</b>		<b>⚠ ADVERTENCIA</b>
<p>Impact hazard.</p> <p>Risk of DEATH or SERIOUS INJURY.</p> <p>Load may shift, slide or fall.</p> <p>Conveyor not designed to support machinery, wheelbarrows, or other non-conventional construction materials.</p> <p><b>DO NOT TRANSPORT ON CONVEYOR ARTICLES OTHER THAN CHAINBELTS, SHAKES, TILT, PLYWOOD, TANK TRAILER.</b></p> <p>ASME B20.1-2000.5.1</p> <p>Conveyor equipment shall be used to convey only the specified commodities or materials within the rated capacity and speed.</p> <p>ASME B20.1-2000.6.1</p> <p>It is unlawful to ride the conveyor.</p> <p>ASME B20.1-2000.12</p> <p>A conveyor shall be used to transport only loads it is designed to handle safely (140 lbs. or every other 190).</p> <p>Only a trained person shall be permitted to operate the conveyor.</p> <p>The area around loading and unloading points shall be kept clear of obstructions that could endanger personnel.</p> <p>Personnel should be alerted to the potential hazard of entanglement in conveyors caused by items such as long hair, loose clothing, and jewelry.</p> <p>If you are UNCLEAR or do not UNDERSTAND ANY PART of this WARNING - Contact the Manufacturer at 1-800-453-2446 for INFORMATION.</p>		<p>Riesgo de Impacto</p> <p>Riesgo de MUERTE o LESIÓN SERIA.</p> <p>La carga puede moverse, deslizarse o caerse.</p> <p>La faja transportadora no está diseñada para llevar maquinaria, carritos de mano, otros materiales de construcción no convencionales.</p> <p><b>NO TRANSLADAR SOBRE LA FAJA TRANSPORTADORA ARTÍCULOS QUE NO SEAN: TAPAS, TEJAS DE MADERA, LAMINAS, MÓVILES, MADERA CONTRAQUADRA, PAPEL IMPRIMIBLE, ETC.</b></p> <p>ASME B20.1-2000.5.1</p> <p>El equipo de la faja transportadora se usará para trasladar solo mercancías o materiales específicos que estén incluidos del rango de capacidad y velocidad.</p> <p>ASME B20.1-2000.6.1</p> <p>Está prohibido y es ilegal la faja transportadora.</p> <p>ASME B20.1-2000.12</p> <p>Se utilizará la faja transportadora para llevar solo las cargas que puede cargar de manera segura. 140 libras o cada dos 190 libras.</p> <p>El personal capacitado opera la faja transportadora.</p> <p>El área alrededor de los puntos de carga y descarga, se mantendrá libre de obstrucciones que pudieran poner en peligro al personal.</p> <p>El personal debe estar alertado del peligro potencial del enredo en la faja transportadora causada por artículos tales como cabellos largos, ropa suelta y joyas.</p> <p>Si usted TIENE DUDAS o no ENTIENDE ALGUNA PARTE de esta ADVERTENCIA - Contáctese con el fabricante al 1-800-453-2446 para obtener INFORMACIÓN</p>

#2 22WDA



#5 22EAD



#4 22EAC

<b>⚠ DANGER</b>

<p>Pinch points. Watch your hands.</p>

#3 24BEA

<b>SAFETY FIRST</b>
<p><b>WARNING STOP AND READ</b></p> <p>It is the responsibility of the equipment operator(s) to read and understand all safety information and operational instructions before operating this piece of equipment. Failure to do so could result in severe bodily harm and property damage. This equipment is only to be used by trained personnel. No exceptions.</p> <p>If warning labels are illegible, or if instructions are lost or are not clearly understood, call (800) 453-2446 for free replacements and technical assistance.</p>
<p><b>LA SEGURIDAD ES PRIMERO</b></p> <p>Es responsabilidad del operador(es) del equipo leer y comprender todas las instrucciones de operación y todas las advertencias antes de utilizar este equipo. Si no se hace podría causar severos daños corporales y daños a la propiedad. Esta máquina sólo debe ser usada por personal capacitado. Sin Excepciones.</p> <p>Si las etiquetas de advertencia se vuelven ilegibles, o si las instrucciones se pierden o no se entienden claramente, llame al (800) 453-2446 para solicitar reemplazos gratuitos y asistencia técnica.</p>

#6 22NAB



CLEASBY CONVEYORS, 362 SOUTH MAIN, CLEARFIELD UT  
PH: (800) 453-2446 | FAX: (801) 773-3249

# CLEASBY CONVEYORS EXT-52 DECAL PLACEMENT 08/28/17

<b>⚠ DANGER</b>	<b>PELIGRO</b>
<p>Risk of DEATH or SERIOUS INJURY.</p> <p>The fact that the FBR conveyor is partially produced and assembled from components of fiberglass and other traditional electrical nonconductive materials must not be assumed as a safe-guard against an inadvertent contact with a power line.</p> <p>Always use extreme caution when operating the conveyor.</p> <p>There are many factors that influence the electrical conductivity of a structure such as the FBR conveyor. In addition, it is against Federal &amp; State Law to position the conveyor within twenty (20') of a power line.</p> <p>ANSI B. 30.5 29 CFR 1926.1400</p>	<p>Riesgo de MUERTE o LESIÓN GRAVE.</p> <p>El hecho de que la banda transportadora FBR se produce y ensambla parcialmente de componentes de fibra de vidrio y otros materiales tradicionales no conductores de electricidad, no debe de ser asumido como una garantía contra un contacto inadvertido con una línea de energía.</p> <p>Siempre tenga extrema precaución al operar la banda transportadora.</p> <p>Existen muchos factores que influyen en la conductividad eléctrica de una estructura tales como la banda transportadora FBR. Además, es contra la Ley Federal y Estatal colocar la banda transportadora dentro de un tramo de 6 metros (20') de una línea de energía.</p> <p>ANSI B. 30.5 29 CFR 1926.1400</p>
22DEA	

THIS LABEL MUST BE VISIBLE IN CAB OF VEHICLE AT ALL TIMES. Esta etiqueta debe estar visible en la cabina del vehículo en todo momento.

## #7 22DEA

<b>⚠ WARNING SAFETY INSTRUCTIONS</b>	<b>⚠ ADVERTENCIA INSTRUCCIONES DE SEGURIDAD</b>
<p>IT IS UNLAWFUL TO OPERATE WITHOUT FOLLOWING THESE INSTRUCTIONS! INJURY TO YOU, OTHERS &amp; PROPERTY CAN RESULT FROM IMPROPER OPERATION!</p> <ol style="list-style-type: none"> <li>DO NOT operate this equipment unless you have been trained in its safe operation.</li> <li>DO NOT operate this equipment without first reading and understanding the instruction manual.</li> <li>KEEP hands clear of moving parts.</li> <li>DO NOT operate this machine without all guards in place.</li> <li>KEEP at least 10 feet away from all power lines. ANSI B. 30.5 UOHA 550.1.15</li> <li>DO NOT operate without hard hats and safety glasses.</li> <li>KEEP all body parts and foreign materials clear of the conveyor frame interior.</li> <li>DO NOT rest the boom on unstable structures or surfaces.</li> <li>MAINTAIN a safety area using barricades &amp; caution tape around the perimeter of the machine.</li> <li>DO NOT wear loose clothing while operating this equipment.</li> <li>FOLLOW weights, towing and material limitations in the instruction manual.</li> <li>DO NOT operate this equipment while under the influence of drugs, alcohol or other medication that may impair your ability to operate this equipment safely.</li> <li>If you are UNCLEAR or do not UNDERSTAND ANY PART of this WARNING - Contact the Manufacturer at 1-800-453-2447 for INFORMATION. DO NOT PAINT OVER THIS OR ANY OTHER LABEL. CALL 1-800-453-2447 FOR FREE REPLACEMENT LABELS.</li> </ol>	<p>PROHIBIDO OPERAR SIN SEGUIR LAS SIGUIENTES INSTRUCCIONES! SI OPERA LA MAQUINA INADECUADAMENTE PUEDE CAUSAR LESIONES PARA USTED, OTROS O LA PROPIEDAD!</p> <ol style="list-style-type: none"> <li>NO opere este equipo a menos que usted haya sido capacitado para operar de manera de segura.</li> <li>NO opere este equipo sin leer y entender primero el manual de instrucciones.</li> <li>MANTENER las manos alejadas de las partes móviles.</li> <li>NO opere esta máquina sin tomar todas las precauciones.</li> <li>MANTENGASE al menos a 3 metros de las líneas de suministro de energía. ANSI B. 30.5 UOHA 550.1.15</li> <li>NO opere sin llevar puesto un casco grueso y lentes protectoras.</li> <li>MANTENER todas las partes del cuerpo y materia extrañas alejadas del interior de la faja transportadora.</li> <li>NO apoye la barra sobre estructuras o superficies inestables.</li> <li>MANTENER un área de seguridad, empleando barricadas &amp; cinta de seguridad alrededor del perímetro de la máquina.</li> <li>NO lleve ropa suelta mientras está operando este equipo.</li> <li>SIEMPRE las limitaciones de peso, arrastre y material en el manual de instrucciones.</li> <li>No opere este equipo mientras se encuentre bajo la influencia de drogas, alcohol u otra medicación que pueda impedir su capacidad para operar este equipo de manera segura.</li> <li>Si usted TIENE DUDAS o NO ENTIENDE ALGUNA PARTE de esta ADVERTENCIA - Contáctese con el fabricante al 1-800-453-2447 para obtener INFORMACIÓN. NO PINTAR SOBRE ESTA NI SOBRE NINGUNA OTRA ETIQUETA. LLAME AL 1-800-453-2447 PARA OBTENER REEMPLAZOS DE ETIQUETAS GRATIS.</li> </ol>
22DEA	

## #9 22WBA

<b>⚠ DANGER</b>	<b>⚠ PELIGRO</b>
<p>ELECTROCUTION HAZARD</p> <p>AS THE BELT WEARS, REPLACE ONLY WITH A PVC NON-CONDUCTING BELT.</p> <p>REPLACE THE HYDRAULIC HOSE ONLY WITH ORANGE NON-CONDUCTING PAR-FLEX 558H-6 HOSE (CALL Cleasby Conveyors, for Information: (800) 453-2446).</p> <p>ASME B20.1-2000, 5.12</p> <p>NEVER OPERATE CONVEYOR DIRECTLY UNDER POWER LINES</p> <p>Establish a Safety Zone of defined boundaries (use flags, caution tape or other boundary marker). Safety Zone creates circular boundary the radius of which reflects the perimeter surface of operation located no less than 20 feet from power line.</p> <p>Keep 50 feet away from any Power Line if line voltage is unknown. See 29 CFR 1926.1400</p> <p>It is unlawful to remove or alter any of the safety features of the conveyor or related equipment.</p> <p>If you are UNCLEAR or do not UNDERSTAND ANY PART of this WARNING-Contact the manufacturer at 1-800-453-2446 for INFORMATION.</p>	<p>PELIGRO DE ELECTROCUCIÓN</p> <p>CUANDO SE DESGASTE LA CORREA, REEMPLAZELA ÚNICAMENTE CON UNA CORREA DE PVC NO CONDUCTORA.</p> <p>REEMPLACE LA MANGUERA HIDRÁULICA ÚNICAMENTE CON UNA MANGUERA PAR-FLEX 558H-6 ANARANJADA NO CONDUCTORA (llame a Cleasby Conveyors para obtener información: (800) 453-2446).</p> <p>ASME B20.1-2000, 5.12</p> <p>NUNCA OPERE EL TRANSPORTADOR DIRECTAMENTE DEBAJO DE LAS LÍNEAS ELÉCTRICAS</p> <p>Establezca una ZONA DE SEGURIDAD de límites definidos (Use banderitas, cintas o otro marcador). La ZONA DE SEGURIDAD crea un límite circular, cuyo radio refleja la superficie del perímetro de operación ubicada a no menos de 20 pies (6 metros) de la línea eléctrica.</p> <p>Mantenga una distancia de 50 pies (15 metros) de cualquier línea eléctrica si desconoce el voltaje de la línea. Vea CFR 29 1926.1400</p> <p>Es ilegal quitar o alterar cualquiera de estos indicadores de seguridad del transportador o los equipos relacionados.</p> <p>Si no está SEGURO o no ENTIENDE ALGUNA PARTE de esta ADVERTENCIA- comuníquese con el fabricante al 1-800-453-2446 para obtener INFORMACIÓN.</p>
22DCA	

## #11 22DCA



CLEASBY CONVEYORS, 362 SOUTH MAIN, CLEARFIELD UT  
PH: (800) 453-2446 | FAX: (801) 773-3249

<b>⚠ DANGER</b>		<b>⚠ PELIGRO</b>
<p><b>Electrocution Hazard</b> Risk of DEATH or SERIOUS INJURY if conveyor or load comes in contact with or proximity to power lines.</p> <p>Beware of power lines when raising, lowering or rotating conveyor. Look UP and AROUND.</p> <p>It is unlawful to operate conveyor within 20 feet of power lines. ANSI B. 30.5 29 CFR 1926.1400</p> <p>ANSI A92-2001 Before and during each use the operator shall check for overhead obstructions and electrical conductors.</p> <p>Operator must be a "Competent Person" See OSHA CFR 29 1926.1400 Do not operate this equipment unless you have been trained in its safe operation.</p> <p>If you are UNCLEAR or do not UNDERSTAND ANY PART of this WARNING - Contact the Manufacturer at 1-800-453-2446 for INFORMATION. Consult owner's manual and video provided.</p>		<p><b>Peligro de electrocución</b> Riesgo de MUERTE o LESIONES GRAVES si el transportador o la carga entran en contacto o proximidad con las líneas eléctricas.</p> <p>Tenga cuidado con las líneas eléctricas al elevar, bajar o rotar el transportador. Mire hacia ARRIBA y A LADO.</p> <p>Es ilegal operar el transportador a 20 pies (6 metros) de las líneas eléctricas. ANSI B. 30.5 29 CFR 1926.1400</p> <p>ANSI A92-2001 Antes y durante cada uso, el operador debe revisar si hay obstrucciones aéreas y conductores eléctricos.</p> <p>El operador debe ser una "persona competente" Vea OSHA CFR 29 1926.1400 No opere este equipo a menos que esté capacitado para hacerlo en forma segura.</p> <p>Si no está SEGURO o no ENTIENDE ALGUNA PARTE de esta ADVERTENCIA- comuníquese con el fabricante al 1-800-453-2446 para obtener INFORMACIÓN. Consulte el manual del propietario y el video proporcionado.</p>
22DBA		

## #8 22DBA

<b>⚠ DANGER</b>		<b>⚠ PELIGRO</b>
<p><b>Electrocution Hazard</b> Risk of DEATH or SERIOUS INJURY if conveyor or load comes in contact with or proximity to power lines.</p> <p>It is against Federal &amp; State Law to operate conveyor within 20 feet of power lines. ANSI B. 30.5 29 CFR 1926.1400</p> <p>High pressure cleaning systems in other high force medium may damage fiberglass surfaces. Once damaged, water or other contaminants may enter the core of the fiberglass matrix creating a conductive channel for electrical current to follow.</p> <p>Use low pressure or standard line pressure or other low pressure device for cleaning purposes. Use caution with cleaning.</p> <p>If you are UNCLEAR or do not UNDERSTAND ANY PART of this WARNING - Contact the Manufacturer at 1-800-453-2446 for information. DO NOT PAINT OVER THIS OR ANY OTHER LABEL. CALL 1-800-453-2446 FOR FREE REPLACEMENT LABELS.</p>		<p><b>Peligro de electrocución</b> Riesgo de MUERTE o LESIONES GRAVES si el transportador o la carga entran en contacto con o proximidad con las líneas eléctricas.</p> <p>Es contra la Ley Federal y Estatal operar un transportador a menos de 6 metros de las cables de alta tensión. ANSI B. 30.5 29 CFR 1926.1400</p> <p>Los sistemas de limpieza de alta presión u otros medios con alta fuerza de fuerza pueden dañar las superficies de fibra de vidrio. Una vez dañadas el agua u otros contaminantes pueden ingresar al núcleo de la matriz de la fibra de vidrio, creando un canal de conducción que, que se transporta la corriente eléctrica.</p> <p>Cuando se mencionan las lavadoras hidrónicas, se debe cargar el sistema y operar cuidadosamente todas las bombas accionadas.</p> <p>Todas las superficies de material de fibra de vidrio deben mantenerse limpias y secas.</p> <p>Los sistemas de limpieza de alta presión u otros medios con alta fuerza de fuerza pueden dañar las superficies de fibra de vidrio. Una vez dañadas el agua u otros contaminantes pueden ingresar al núcleo de la matriz de la fibra de vidrio, creando un canal de conducción que, que se transporta la corriente eléctrica.</p> <p>Para reducir el riesgo, utilice agua que no se encuentre calentado en la línea de presión estándar u otro dispositivo de baja presión.</p> <p>Realice la limpieza con cuidado.</p> <p>Si está CONFUNDO o NO COMPRENDE ALGUNA SECCIÓN de esta ADVERTENCIA- comuníquese con el fabricante al 1-800-453-2446 para obtener INFORMACIÓN. NO PINTAR SOBRE NINGUNA OTRA ETIQUETA. LLAME AL 1-800-453-2446 PARA OBTENER REEMPLAZOS DE ETIQUETAS GRATIS.</p>
22DBA		

## #10 22DDA



## #12 24FFA

CLEASBY CONVEYORS  
EXT-52 DECAL PLACEMENT  
08/28/17



#13 24JLA



#14 22EAA



#15 22JAA



#16 22JAB



#14 22RFB



#17 22RFA



# CLEASBY CONVEYORS EXT-52 DECAL PLACEMENT 08/28/17

<p><b>WARNING</b></p> <p>Vehicle Rotation Hazard Risk of falling or other serious injury. Lower and extend stabilizers prior to operating equipment. Refer to owners manual, p4-5. Do Not operate on uneven surface. Do Not retract stabilizers when conveyor is raised or in operating position. ANSI/AS2.2 Use stabilizers. Do Not move truck without securing conveyor to headboard by using load tie down straps. If you are UNCLEAR or do not UNDERSTAND ANY PART of this WARNING - Contact the Manufacturer at 1-800-453-2446 for INFORMATION.</p>		<p><b>ADVERTENCIA</b></p> <p>Peligro de Giro del Vehículo Riesgo de caída u otras lesiones serias. Bajar y extender estabilizadores antes de operar el equipo. Consultar el manual del usuario, páginas : 5-6. No operar sobre superficies desniveles. No retraer los estabilizadores cuando la faja transportadora se está levantado o en posición de funcionamiento. ANSI/AS2.2 Utilice estabilizadores. No mover el camión sin asegurar la faja transportadora a la cabecera empleando correas para sujetar la carga. Si usted TIENE DUDAS o no ENTENDE ALGUNA PARTE de esta ADVERTENCIA - Contáctese con el fabricante al 1-800-453-2446 para obtener INFORMACIÓN.</p>
<p>THIS LABEL MUST BE VISIBLE IN CAB OF VEHICLE AT ALL TIMES. Esta etiqueta debe estar visible en la cabina del vehículo en todo momento.</p>		

#18 22WEA

<p><b>WARNING</b></p> <p>Conveyor impact hazard. Risk of DEATH or SERIOUS INJURY due to hydraulic system failure. Conveyor may suddenly fall. It is UNLAWFUL to remove or modify velocity fuse. If you are UNCLEAR or do not UNDERSTAND ANY PART of this WARNING - Contact the Manufacturer at 1-800-453-2446 for INFORMATION</p>		<p><b>ADVERTENCIA</b></p> <p>Riesgo de impacto de la faja transportadora Peligro de MUERTE o de LESIÓN SERIA debido a una falla del sistema hidráulico. La faja transportadora puede fallar repentinamente. Está PROHIBIDO eliminar o modificar el fusible de velocidad. SI TIENE DUDAS o no ENTENDE ALGUNA PARTE de estas ADVERTENCIAS - Contáctese con el Fabricante al 1-800-453-2446 para mayor INFORMACIÓN</p>
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#19 22WFA

**MAINTENANCE**  
**TIGHTEN WEAR PLUGS AS NEEDED**

#20 22JNA

**NO STOP**

24CDA

**GREASE**

#22 24CEA

#21 22CDA

DANGER  
PELIGRO

↑ ↑ ↑ ↑

BEWARE OF POWER LINES

#27 24DEA

↑  
**ROTATE**

#23 24DJA

↑  
**EXTEND**

#27 24DLA

↑  
**POST**

#24 24DIA

↑  
**BELT**

#26 24DDA

↑  
**BOOM**

#25 24DEA



