CONVEY-ALL™

OPERATOR'S MANUAL

DRIVE-OVER CONVEYOR

2228-DO

SIGN-OFF FORM

Meridian Manufacturing Inc. follows the general Safety Standards specified by the American Society of Agricultural Engineers (ASAE), and the Occupational Safety and Health Administration (OSHA). Anyone who will be operating and/or maintaining the tube conveyor must read and clearly understand ALL Safety, Operating and Maintenance Information presented in this manual.

Do not operate or allow anyone else to operate this equipment until such information has been reviewed. Annually review this information before the season start-up.

Make these periodic reviews of SAFETY and OPERATION a standard practice for all of your equipment. We feel that an untrained operator is unqualified to operate this machine.

The following Sign-Off Form is provided for your record keeping to show that all personnel who will be working with the equipment have read and understand the information in the Operator's Manual and have been instructed in the operation of the equipment. Copy this page to continue record.

Date	Employee's Signature	Employer's Signature

WARRANTY REGISTRATION FORM and INSPECTION REPORT

CONVEY-ALL™

Box 760, 275 Hespler Ave, Winkler, Manitoba R6W 4A8
T: (800) 418-9461 P: (204) 325-4195 F: (204) 325-8116
www.convey-all.com conveyors@convey-all.com

The Dealer must fill out this form, and be signed by both the Dealer and Buyer at the time of delivery. Scan or photograph the completed form (must be legible), and email it to: register@convey-all.com A copy of this form may also be mailed to the above address.

Buyer's Name _____ Dealer's Name _____

Address _____ Address _____

City _____ City _____

Province/State _____ Province/State _____

Postal Code/Zip Code _____ Postal Code/Zip Code _____

Country _____ Country _____

Phone Number _____ Phone Number _____

Unit's Model Number _____ Unit's Serial Number _____

Delivery Date _____ General Purpose: ☐ Private ☐ Commercial

UNIT INSPECTION

- ☐ All Fasteners Tight
- ☐ V-Belt(s) are Tensioned and Rotate Freely
- ☐ Driveline/Motor Mount Secured to Machine
- ☐ Fuel is turned off at Engine
- ☐ Hydraulic Hoses Free and Fittings Tight
- ☐ Machine and All Bearings Lubricated
- ☐ Conveyor Tube Raises and Lowers Smoothly
- ☐ Conveyor Belt Aligned and Tensioned
- ☐ Tire Pressure Checked

SAFETY INSPECTION

- ☐ All Guards/Shields Installed and Secured
- ☐ All Safety Decals Clear and Legible
- ☐ Reflectors, Slow Moving Vehicle Sign are Clean
- ☐ Safety Chain on Hitch
- ☐ Reviewed Operating and Safety Instructions

I have thoroughly instructed the buyer on the above described equipment. The review included the content of the Operator's Manual, equipment care, adjustments, safe operation and warranty policy.

Date _____ Dealer's Signature _____

The above equipment and Operator's Manual have been received by me. I have been thoroughly instructed as to care, adjustments, safe operation and applicable warranty policy.

Date _____ Buyer's Signature _____

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Section 1: INTRODUCTION

Congratulations on your choice of a Convey-All™ Drive-Over Conveyor. It is designed to efficiently move grain, pulse crops or granular material between a truck, trailer, and another conveyor.

Convey-All™ is a member of the Meridian Manufacturing Inc. family. The equipment we design and manufacture meet the exacting standards of the agricultural industry.

Keep this manual handy for frequent reference and pass it on to new operators or owners. Call your dealer, distributor or Meridian Manufacturing Inc., if you need assistance, information, additional/ replacement copies, or a digital copy of this document.

Information provided herein is of a descriptive nature. Meridian Manufacturing Inc. reserves the right to modify the machinery design and specifications provided herein without any preliminary notice.

Performance quality may depend on the material being handled, weather conditions and other factors.

1.1 OPERATOR ORIENTATION

The directions; left, right, front and rear, as mentioned throughout this manual, are as seen from the tow vehicle driver's seat, facing the direction of travel. The hitch is the front of the conveyor.

1.2 SERIAL NUMBER

Always give your dealer the serial number of your conveyor when ordering parts or requesting service or other information. The conveyor's serial number is located at the hopper.

Use the space provided for easy reference.

Conveyor Model No: _____

Conveyor Serial No: _____

Engine Model No: _____

Engine Serial No: _____

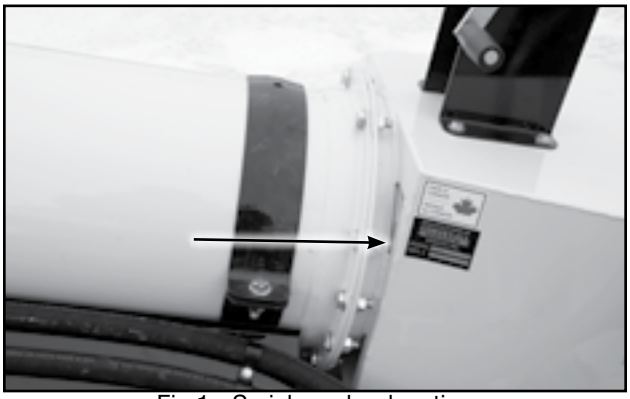

Fig 1 - Serial number location

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Section 2: SAFETY

The Safety Alert Symbol means:

ATTENTION!
BECOME ALERT!
YOUR SAFETY IS INVOLVED!

3 Big Reasons why safety is important to you:

- Accidents Disable and Kill
- Accidents Cost
- Accidents Can Be Avoided

The Safety Alert Symbol identifies important safety messages on the conveyor and in this manual.

The following signal words are used in this manual to express the degree of hazard for areas of personal safety.

When you see the symbol and/or the signal words described below, obey the accompanying message to avoid possible injury or death.

⚠ DANGER — Indicates a hazardous situation that, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations. Typically for machine components which, for functional purposes, cannot be guarded.

⚠ WARNING — Indicates a hazardous situation, if not avoided, could result in death or serious injury. This word identifies hazards that are exposed when guards are removed. It may be used to alert against unsafe practices.

⚠ CAUTION — Indicates a hazardous situation, if not avoided, could result in minor or moderate injury. It may be used to alert against unsafe practices.

NOTICE — Indicates practices or situations which may result in the malfunction of, or damage to equipment.

SAFETY INSTRUCTIONS — Safety instructions (or equivalent) signs indicate specific safety-related instructions or procedures.

2.1 SAFETY ORIENTATION

YOU are responsible for the SAFE operation and maintenance of your Convey-All™ Drive-Over Conveyor. Be sure that everyone who will operate, maintain or work around it, is familiar with the safety, operating and maintenance procedures.

This manual will take you step-by-step through your working day. It will alert you to all the safe practices that should be adhered to while operating the conveyor.

It has been said, "The best safety feature is an informed, careful operator." Good safety practices not only protect you but also the people around you. Make these practices a dynamic part of your workday.

Most accidents can be prevented. Do not risk injury or death by ignoring good safety practices.

- Conveyor owners must give operating instructions to operators or employees before allowing them to operate the machine.

  Procedures must be reviewed annually thereafter, as per OSHA (Occupational Safety and Health Administration) regulation 1928.57.

- The most important safety device on this equipment is a SAFE operator. It is the operator's responsibility to understand all safety and operating instructions in this document, and to follow them.

- An untrained operator exposes himself and bystanders to possible serious injury or death.

- Think SAFETY! Work SAFELY!

2.2 GENERAL SAFETY

- Read and understand the Operator's Manual and all safety decals before operating, maintaining, adjusting or unplugging the conveyor.

- Only trained competent persons shall operate the conveyor. An untrained operator is not qualified to operate the machine.

- Have a first-aid kit available for use should the need arise.

- Provide a fire extinguisher for use in case of an accident. Store in a highly visible place.

- Do not allow riders.

- Do not allow children, spectators or bystanders within hazard area around the machine.

- Wear appropriate protective gear. This list may include but is not limited to:
  - Hard hat
  - Protective shoes with slip resistant soles
  - Eye protection
  - Work gloves
  - Hearing protection
  - Respirator or filter mask
  - Hi-Visibility safety vest

- Never use alcoholic beverages or drugs which can hinder alertness or coordination while operating this equipment.

  Consult your doctor about operating this machine while taking prescription medications.

- If the elderly are assisting with farm work, their physical limitations need to be recognized and accommodated.

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

2.3 EQUIPMENT SAFETY GUIDELINES

- Safety of the operator and bystanders is one of the main concerns when designing and developing this conveyor. However, every year many accidents occur which could have been avoided by a few seconds of thought, and a more careful approach to handling equipment.

- Do not allow personnel to operate this unit until they have read this manual. They should have a thorough understanding of the safety precautions.

  Review the safety instructions with all users annually.

- In order to provide a better view, certain photographs or illustrations in this manual may show an assembly with safety guards removed.

  

  Equipment should never be operated in this condition. All guards must be in place. If removal becomes necessary for repairs, replace the guard prior to use.

- This equipment is dangerous to children and persons unfamiliar with its operation.

  The operator must be responsible, properly trained and physically able. You should be familiar with farm machinery in general.

- Never exceed the limits of a piece of machinery. If its ability to do a job, or to do so safely, is in question - DO NOT TRY IT.

- Do not modify the equipment in any way. Unauthorized modification result in serious injury or death and may impair the function and life of the equipment.

- The design and configuration of this conveyor includes safety decals and equipment. They need to be clean, readable and in good condition.

2.4 SAFETY DECALS

- Keep safety decals clean and legible at all times.

- Replace safety decals that are missing or have become illegible.

- Replaced parts must display the same decal(s) as the original parts.

- All safety decals have a part number in the lower right hand corner. Use this part number when ordering replacements.

- Safety decals are available from your authorized distributor, dealer's parts department or from Meridian Manufacturing Inc.

2.4.1 Applying Decals:

1. Be sure the application area is clean and dry. Ensure the surrounding temperature is above 10°C (50°F).
   - Remove all dirt, grease, wax from the surface.
   - Clean with a non-ammonia based cleaner.
   - Wipe the clean surface with isopropyl alcohol on paper towel, and allow to dry.

2. Determine the exact position before you remove the backing paper.

3. Peel a small portion of the split backing paper.

4. Align the decal over the specified area. Use a squeegee to carefully press the small portion, with the exposed adhesive backing, into place.

5. Slowly peel back the remaining paper and carefully smooth the rest of the decal into place.

6. Small air pockets can be pierced with a pin and smoothed out using the squeegee, or a piece of sign backing paper.

2.5 SAFETY DECAL LOCATION

The following illustrations show the general location of decals on this conveyor. The position of decals may vary depending on the machine's options. Decals are not shown at actual size.

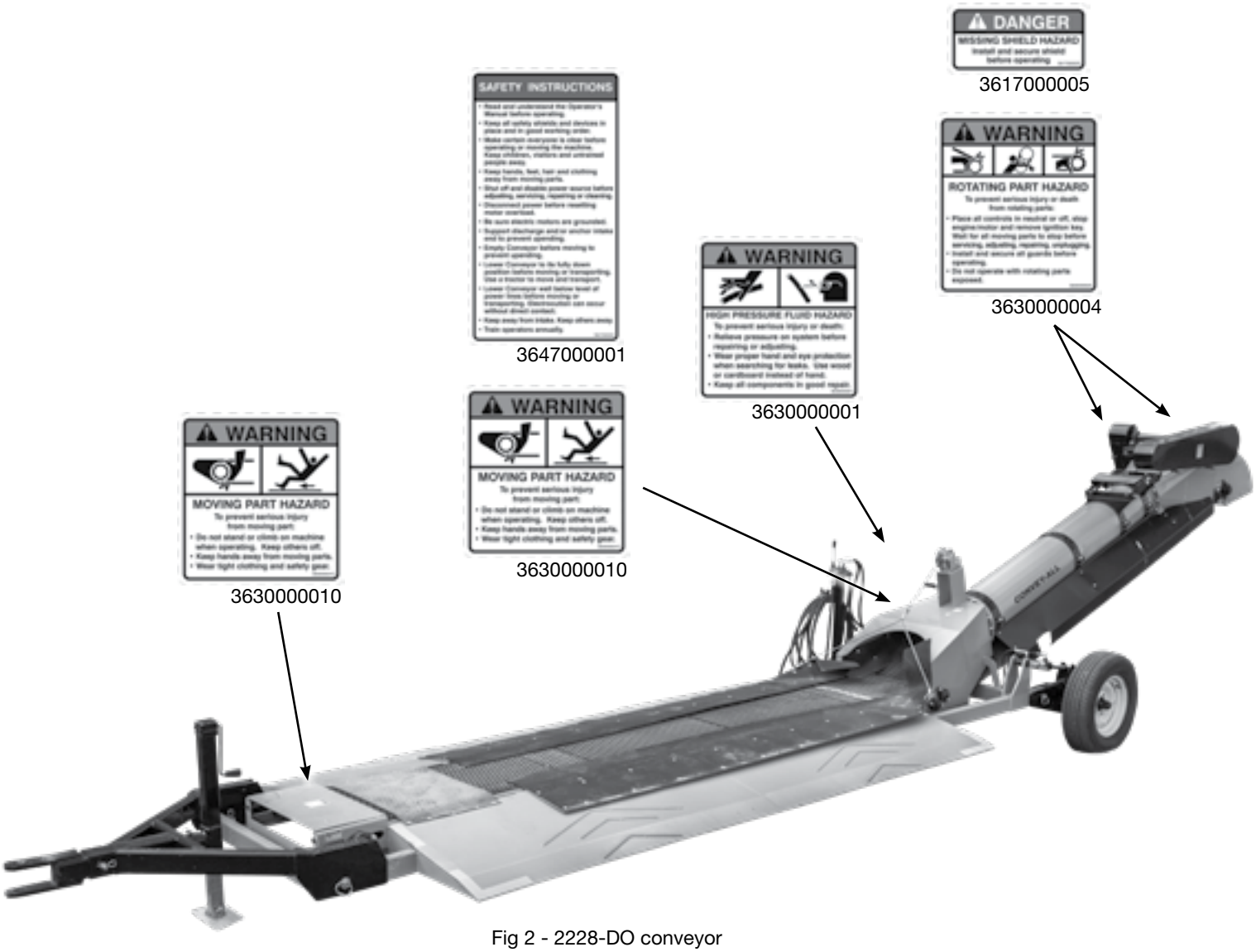

Fig 2 - 2228-DO conveyor

REMEMBER - If safety decals have been damaged, removed, become illegible, or parts were replaced without signage, new ones must be applied. New decals are available from your authorized dealer.

2.6 WORK PREPARATION

- Never operate the conveyor and its engine until you have read this manual, and understand the information.

  Also, read the engine operator's manual.

- Be familiar with the safety messages found on the decals around this unit.

- Personal protective equipment (PPE) include:
  - Hard hat
  - Eye protection
  - Protective shoes
  - Work gloves

  

  They are recommended during installation, placement, operation, maintenance and removal of the equipment.

- Do not allow long hair, loose fitting clothing or jewelry to be around equipment.

- PROLONGED EXPOSURE TO LOUD NOISE MAY CAUSE PERMANENT HEARING LOSS!

  Agricultural equipment can often be noisy enough to cause permanent, partial hearing loss. We recommend that you wear hearing protection on a full-time basis if the noise in the Operator's position exceeds 80 db.

  

  Noise over 85 db on a long-term basis can cause severe hearing loss.

  Noise over 90 db adjacent to the operator over a long-term basis may cause permanent, total hearing loss.

Note:
Hearing loss from loud noise
(tractors, chain saws, radios, etc.)
is cumulative over a lifetime
without hope of natural recovery.

- Clear working area of stones, branches or hidden obstacles that might be hooked or snagged, causing injury or damage.

- Operate only in daylight or good artificial light.

- Be sure machine is in a stable position, is adjusted and in good operating condition.

- Ensure that all safety guards and safety decals are properly installed and in good condition.

- Before starting, inspect the unit for any loose bolts, worn parts, cracks, leaks or frayed belts. Make the necessary repairs.

  Always follow the maintenance instructions.

2.7 PLACEMENT SAFETY

- Move only with a tractor. Never move by hand.

- Locate conveyor providing enough space for trucks to load or unload.

- Operate conveyor on level ground, free of debris.

2.8 LOCK-OUT TAG-OUT SAFETY

- Establish a formal Lock-Out Tag-Out program for your operation.

- Train all operators and service personnel before allowing them to work around the area.

- Provide tags on the machine and a sign-up sheet to record tag out details.

2.9 MAINTENANCE SAFETY

- Review Section 4: Service and Maintenance, before maintaining or operating the conveyor.

- Follow good shop practices:
  - Keep service area clean and dry.
  - Be sure electrical outlets and tools are properly grounded.
  - Use adequate light for the job.

- Place all controls in neutral or off. Stop engine, and remove ignition key. Wait for all moving parts to stop before servicing, adjusting, repairing.

- Relieve pressure from hydraulic circuit before servicing.

- Before applying pressure to a hydraulic system, ensure all components are tight and that hoses and couplings are in good condition.

- Keep hands, feet, hair, and clothing away from all moving/rotating parts.

- Replace parts with genuine factory replacements parts to restore your equipment to original specifications.

  Meridian Manufacturing Inc. will not be responsible for injuries or damages caused by using unapproved parts and/or accessories.

- Make sure there is plenty of ventilation. Never operate the engine in a closed building. The exhaust fumes may cause asphyxiation.

- Clear the area of bystanders, especially children, when carrying out any maintenance and repairs or making any adjustments.

- Place stands or blocks under the frame before working beneath the machine.

- Before resuming work, install and secure all guards when maintenance work is completed.

- Replace damaged or not clearly visible decals.

2.10 TIRE SAFETY

- Failure to follow procedure when mounting a tire on a wheel or rim can produce an explosion and may result in serious injury or death.

- Do not attempt to mount a tire unless you have proper equipment and training to do the job.

- Have a qualified tire dealer or repair service perform required tire maintenance.

- When replacing worn tires, make sure they meet original tire specifications. Never undersize.

- Reference the tire side wall for information on the maximum cold tire pressure (PSI). Keep the tires inflated to this setting.

2.11 BATTERY SAFETY

- Keep all sparks and flames away from battery, as the gas given off by electrolyte is explosive.

- Avoid contact with battery electrolyte. Wash off any spilled electrolyte immediately.

- Wear safety glasses when working near batteries.

- Do not tip batteries more than 45 degrees, to avoid electrolyte loss.

- To avoid injury from spark or short circuit, disconnect battery ground cable before servicing any part of electrical system.

- When storing conveyor for an extended period:
  - Remove the battery.
  - Be sure it is fully charged.
  - Store it inside.
  - Do not sit battery on a cold, concrete floor.

- Before using the battery, after it has been in storage, be sure it is charged.

2.12 ENGINE SAFETY

- Read and understand the operating manual provided with the engine.
- Use proper tools to service engine.
- Do not run engine in an enclosed area. Exhaust gases contain carbon monoxide, an odorless and deadly poison.
- Store fuel in approved safety containers.

- Do not store fuel near open flame.

  Appliances such as a stove, furnace, or water heater use a pilot light which can create a spark.

- No smoking when filling fuel tank.
- Do not remove fuel cap while engine is running.
- Do not refuel indoors where area is not well ventilated. Outdoor refueling is preferred.
- Do not refuel while engine is running. Allow engine to cool for 5 minutes before proceeding.
- Use fresh fuel. Stale fuel can gum carburetor and cause leakage.
- Check fuel lines and fittings frequently for cracks or leaks. Replace if necessary.
- Do not operate engine if fuel has spilled. Move machine away. Avoid creating any ignition until the fuel has evaporated.
- Do not run engine above rated speeds. This may result in damage and injury.
- Do not tamper with the engine speed selected by the original equipment manufacturer.
- Do not operate engine with grass, leaves, dirt or other combustible materials in muffler area.
- Do not operate engine without muffler.
- Do not tamper with governor springs, governor links or other parts which may increase the governed engine speed.
- Do not strike flywheel with hard object or metal tool. This may cause it to shatter in operation.
- Keep cylinder fins/governor parts free of grass and other debris which can affect engine speed.

⚠ WARNING

HOT EQUIPMENT HAZARD

Do not touch muffler, cylinder or fins while engine is running. Contact will cause burns.

- Do not use this engine on any forest covered, brush covered, or grass covered unimproved land, unless a spark arrester is installed on muffler. The arrester must be maintained in effective working order by operator.

  In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands.

- Inspect the muffler periodically. Replace it when necessary.

  If engine is equipped with a muffler deflector, inspect periodically. Replace with correct part.

- Do not check for spark, or crank engine with spark plug or spark plug wire removed.
- Do not run engine with air filter or its cover removed.

NOTICE

POSSIBLE ENGINE DAMAGE

Decelerate engine slowly to stop. Avoid choking the carburetor to stop engine. Choke only for an emergency stop.

2.13 OPERATING SAFETY

- Anyone who will be operating this conveyor, or working around it, must read this manual. They must know operating, maintenance, safety info.

  Review the manual annually.

- Clean or replace all safety decals if they cannot be clearly read and understood.

- Place all controls in neutral, and stop the engine. Remove the ignition key. Wait for all moving parts to stop before adjusting, repairing or unplugging.

- Keep all bystanders, especially children, away from the machine when running.

  Also, when authorized personnel are carrying out maintenance work.

- Establish a Lock-Out, Tag-Out policy for the work site. Be sure all personnel are trained in and follow all procedures.

  Lock-out, tag-out all power sources before servicing the unit or working around equipment.

- Be familiar with machine hazard area. If anyone enters hazard areas, shut down machine immediately. Clear the area before restarting.

- Keep hands, feet, hair and clothing away from all moving/rotating parts.

- Do not allow riders on the conveyor when moving or transporting it.

- Keep working area clean and free of debris to prevent slipping/tripping.

- Stay away from overhead obstructions and power lines during operation and transporting. Electrocution can occur without direct contact.

- Do not operate the conveyor when any guards are removed.

- Chock wheels of conveyor before starting.

- Be sure that conveyor tube is empty before raising or lowering.

- Close hydraulic lift ball valve when machine is in working position or before transporting.

- High winds may overturn conveyor. To avoid damage to structures and equipment, do not raise conveyor fully in windy conditions.

  Do not leave conveyor raised, when not in use.

2.14 HYDRAULIC SAFETY

- Always place hydraulic controls in neutral. Then relieve pressure in hydraulic system before maintaining or working on machine.

- Be sure that all components in the hydraulic system are kept in good condition and are clean.

- Replace any worn, cut, abraded, flattened or crimped hoses.

- Do not attempt any makeshift repairs to the hydraulic fittings or hoses by using tape, clamps or cements. The hydraulic system operates under extremely high-pressure. Such repairs will fail suddenly and create a hazardous and unsafe condition.

- Wear proper hand and eye protection when searching for a high-pressure hydraulic leak. Use a piece of wood or cardboard as backstop instead of hand to isolate/identify a leak.

- If injured by a concentrated high-pressure stream of hydraulic fluid, seek medical attention immediately. Serious infection or toxic reaction can develop from hydraulic fluid piercing the skin surface.

2.15 WORKPLACE HAZARD AREA

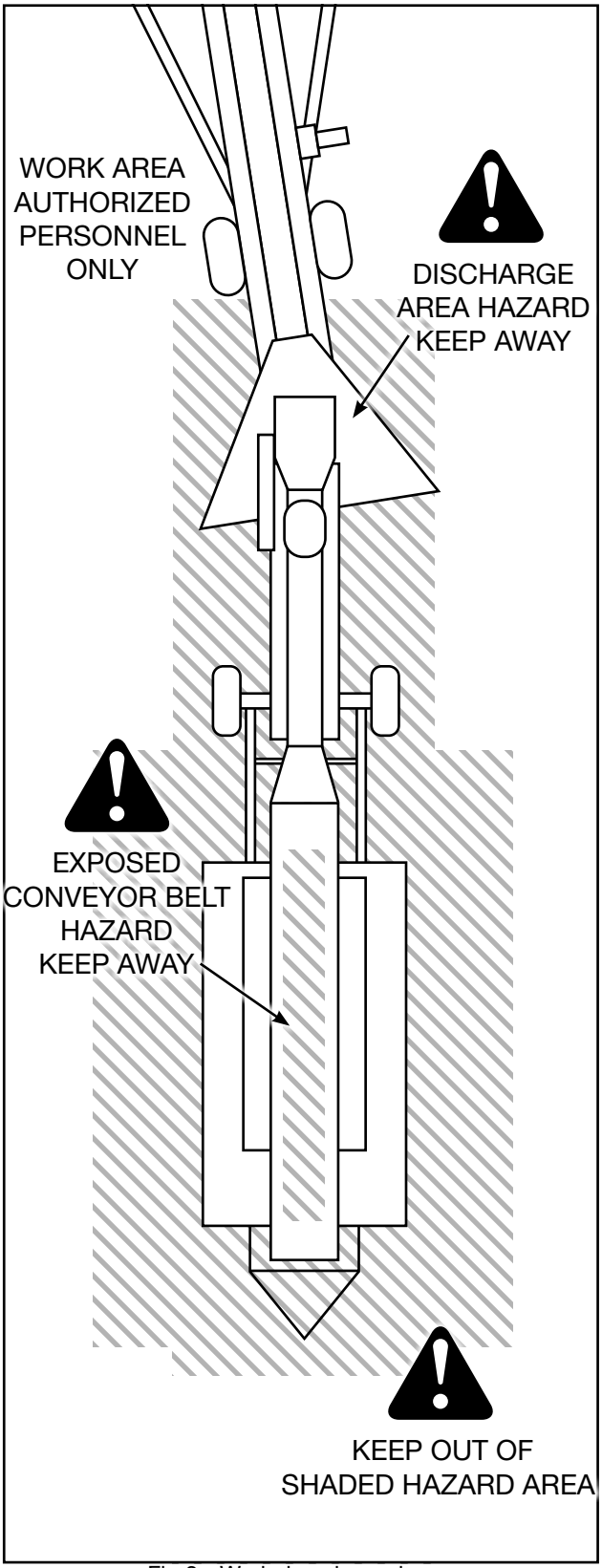

Fig 3 - Workplace hazard area

2.16 ELECTRICAL SAFETY

- Have only a qualified electrician supply power. All wiring should comply with the ANSI/NFPA 70 electrical requirements.

  For North America make certain that sufficient amperage, at proper voltage and appropriate frequency for your geographical area is available before connecting power. All wiring should comply with ANSI/NFPA 70 electrical requirements. Have a licensed electrician provide power to the machine.

- Make certain that the conveyor motor is properly grounded at the power source.

- Make certain that all electrical switches are in the OFF position before plugging the conveyor in.

- Turn machine OFF, shut down and lock out power supply (safety lock-out devices are available through your Convey-All™ dealer parts department) and wait for all moving parts to stop before assembling, servicing, adjusting, maintaining or repairing.

- Disconnect power before resetting any motor.

- Replace any damaged electrical plugs, cords, switches and components immediately.

- Do not work on the conveyor's electrical system unless the power cord is unplugged or the power supply is locked out.

2.17 TRANSPORT SAFETY

- If transporting on a trailer, be sure that it is equipped with brakes that are in good working order. Be familiar with their operation.
- Check that all the lights, reflectors and other lighting requirements are installed and in good working condition.
- Never allow riders on the conveyor.
- Comply with all local laws governing safety and transporting of equipment on public roads.
- Do not exceed a safe travel speed. Slow down for rough terrain and when cornering.
- Plan your route to avoid heavy traffic.
- Do not drink and drive.
- Be a safe and courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc. Watch for traffic when operating near or crossing roadways.

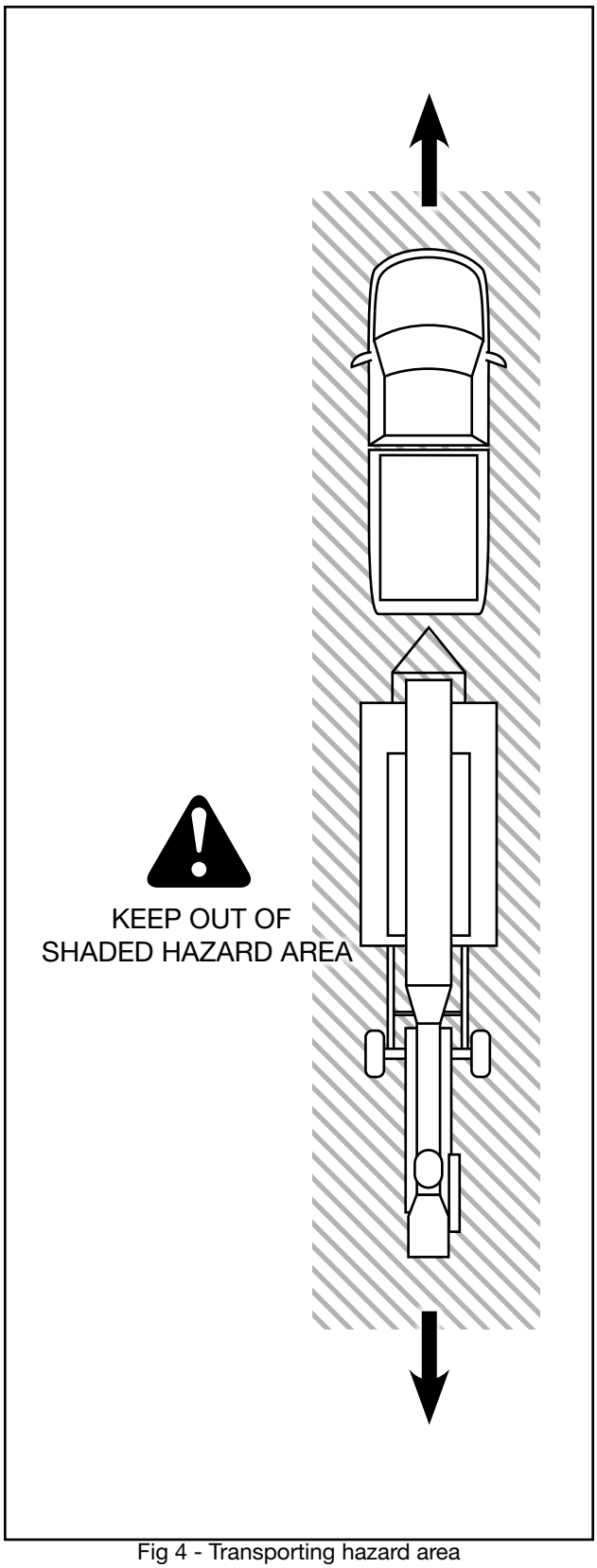

Fig 4 - Transporting hazard area

2.18 STORAGE SAFETY

- Store in an area away from human activity.
- If required, make sure the unit is solidly blocked up.
- Remove the battery and store a in dry location. Do not sit it on a cold concrete floor.
- Make certain all mechanical locks are safely and positively connected before storing.
- Do not permit children to play on or around the stored machine.

Section 3: OPERATION

⚠ WARNING

- Read and understand the Operator's Manual, and all safety decals, before using.
- Stop the engine. Place all controls in neutral, remove ignition key and wait for all moving parts to stop before servicing, adjusting, or repairing or unplugging.
- Clear the area of bystanders, especially children, before starting.
- Keep working area clean and free of debris to prevent slipping or tripping.
- Keep hands, feet, hair and clothing away from all moving and/or rotating parts.
- Do not allow riders on the conveyor when driving mover kit.
- Stay away from overhead obstructions and power lines during operation. Electrocution can occur without direct contact.
- Do not operate conveyor with guards removed.
- Chock wheels of conveyor before starting.
- Be familiar with machine hazard area. If anyone enters hazard areas, shut down machine immediately. Clear area before restarting.
- Establish a lock-out, tag-out policy for the work site. Be sure all personnel are trained in and follow all procedures. Lock-out tag-out all power sources before servicing the unit.

The Convey-All™ Drive-Over Conveyor is designed to efficiently move grain, pulse crops, or granular material between a truck and another conveyor. Power is provided by an gas engine, electric or hydraulic motor. Be familiar with the machine before starting.

It is the responsibility of the owner and operators to read this manual and to train all personnel before they start working with the machine. Follow all safety instructions exactly - it is everyone's business. By following recommended procedure, a safe working environment is provided for the operator, co-workers and bystanders in the area around the work site.

The design and configuration of this conveyor includes safety decals and equipment. Hazard controls and accident prevention are dependent upon the personnel operating and maintaining it. Their awareness, concern, prudence and proper training are crucial.

Many features incorporated into this machine are the result of suggestions made by customers like you. Read this manual carefully for instructions on how to set it, to provide maximum efficiency.

By following the operating instructions, in conjunction with a good maintenance program, your Truck Load conveyor will provide many years of trouble free service.

3.1 MACHINE COMPONENTS

This conveyor is designed with a deck profile low enough to drive over. Normally, this conveyor is used to move material into another conveying system.

A gas engine, electric or hydraulic motor can supply power to the drive located at the discharge end.

Hydraulic cylinders on the wheel axles raise and lower the drive over deck.

A manual winch is used to raise and lower the containment sides.

The main components, and their general location are listed below:

a. Incline Tube
b. Discharge Hood
c. Engine/Motor Mount
d. Drive Belts
e. Drive-Over Deck
f. Conveyor Belt
g. Containment Flaps
h. Containment Flap Winch
i. Wheels with hydraulics on Axle
j. Hydraulic Valve(s)
k. Hitch Assembly
l. Jack
m. Document Holder

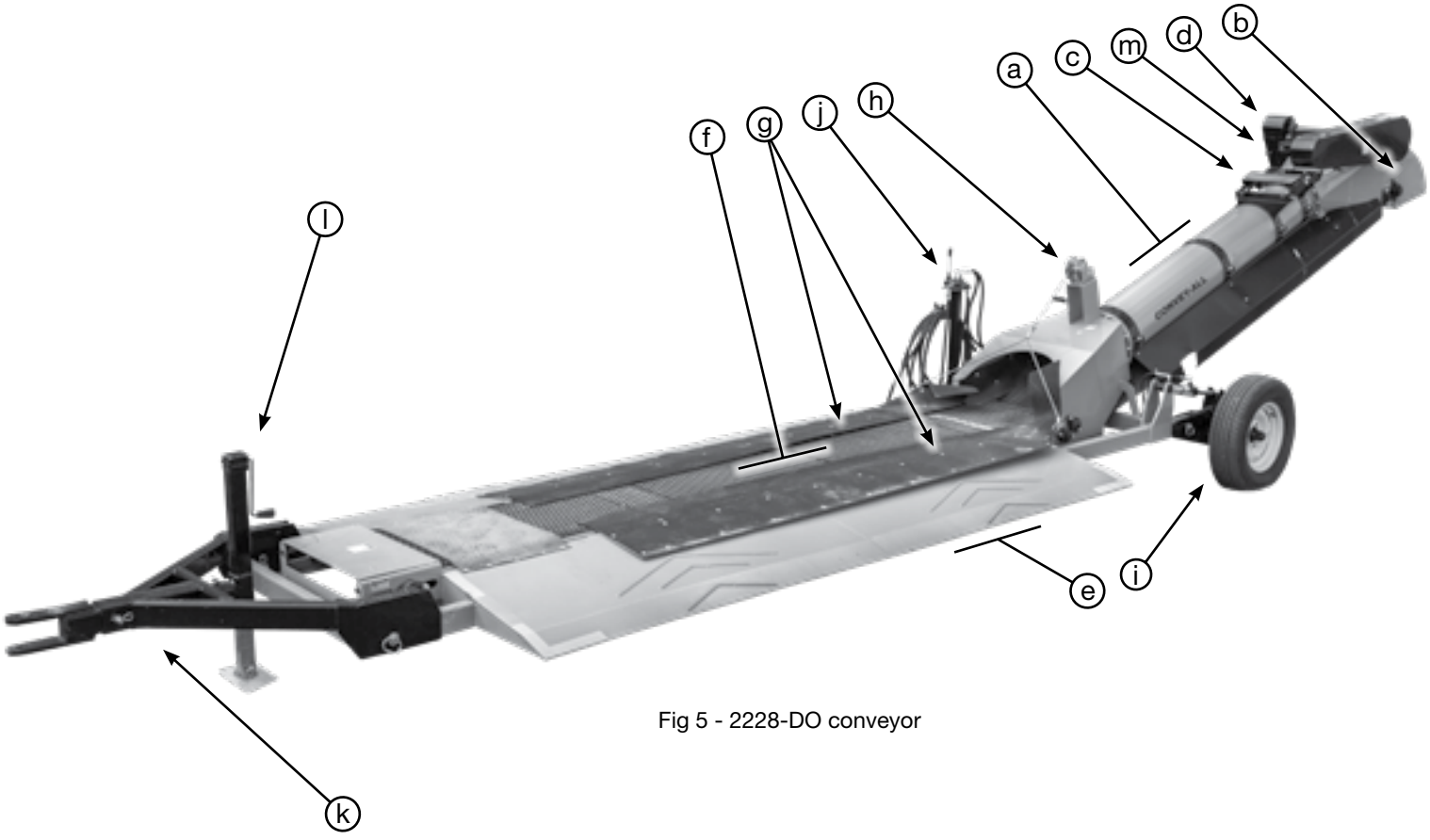

Fig 5 - 2228-DO conveyor

3.2 COMPONENTS AND CONTROLS

Before starting to work, all operators should familiarize themselves with the location and function of the components and controls on their specific unit.

Options and their locations may vary depending on model.

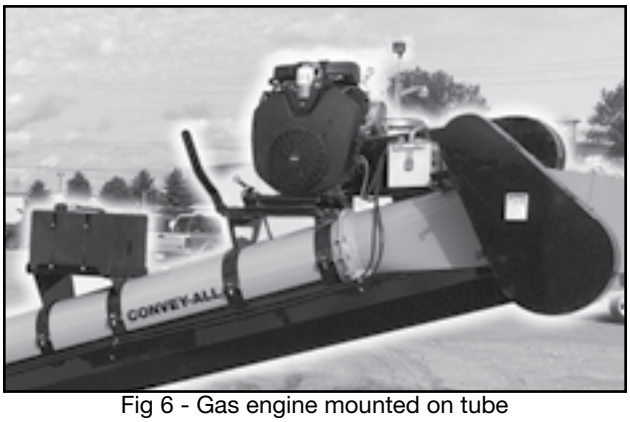

Fig 6 - Gas engine mounted on tube

Gas Engine:
A gas engine is one of the options available to run the conveyor. Read the engine manufacturer's manual for more detailed instructions.

a. Ignition Switch:
Insert the key to operate.

b. Choke:
Choke the valve for starting when the engine is cold. Slide to the left to open the choke as the engine warms.

Always open the choke fully when operating the machine.

c. Throttle:
This lever controls the engine RPM.

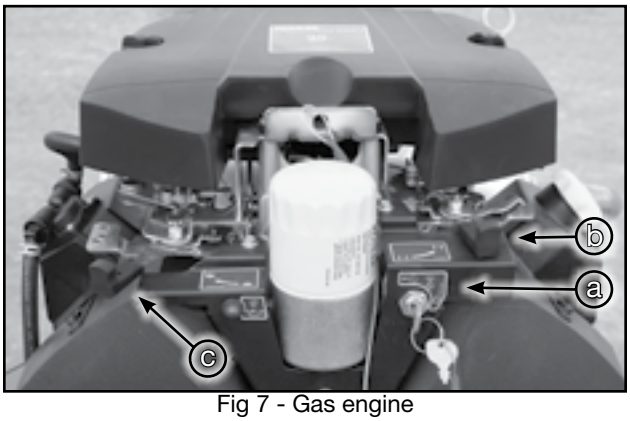

Fig 7 - Gas engine

IMPORTANT:
Always run at maximum engine speed, which is 3600 RPM when operating the conveyor belt.

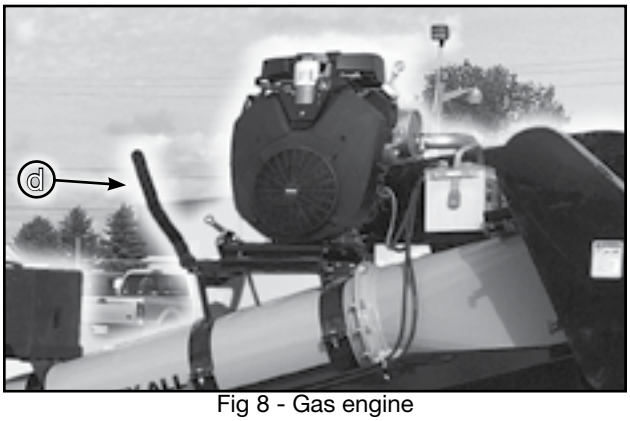

Fig 8 - Gas engine

d. Engine Mount Lever:
This lever sets the position of the engine mount.

Move the lever to slide the engine base away from the drive pulley, disengaging the belt.

IMPORTANT:
Always disengage drive belt before starting or stopping engine.

Electric Motor:
All conveyors with electric power option rely on the dealer and customer to select the motor with the appropriate horsepower and to hire a licensed electrician to provide power, as per the National Electrical Code ANSI/ NFPA 70 and local codes.

A variety of switches can be used. Install an ON/ OFF switch next to the motor for the convenience of the operator.

Minimum Power Requirements:

Model	Horse Power	RPM
DOH-1426	20hp	1800
DOSNH-1426	15hp	1800

Table 1 - Power Requirements

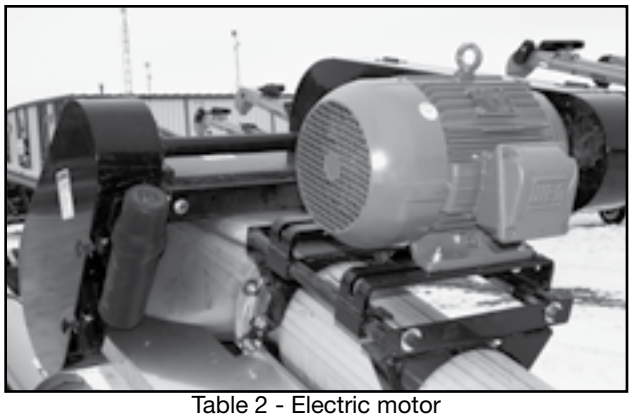
Table 2 - Electric motor

Hydraulic Motor:
If a hydraulic motor is used to operate the conveyor, hoses are run down from the motor and hung on the valve stand.

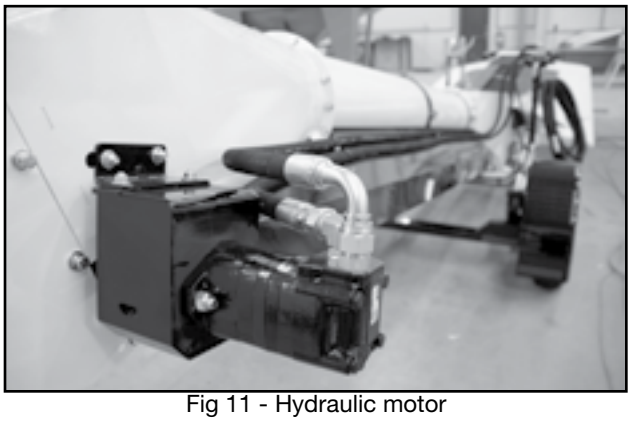
Fig 11 - Hydraulic motor

Hydraulic Valves:
An external hydraulic power source will be needed to run the hydraulics:

- By default, there is at least one valve, located on a stand at the conveyor's transition. This valve is required to function the lift cylinders at the axles.

- If the conveyor is powered by a hydraulic motor. A second valve will be added to the stand.

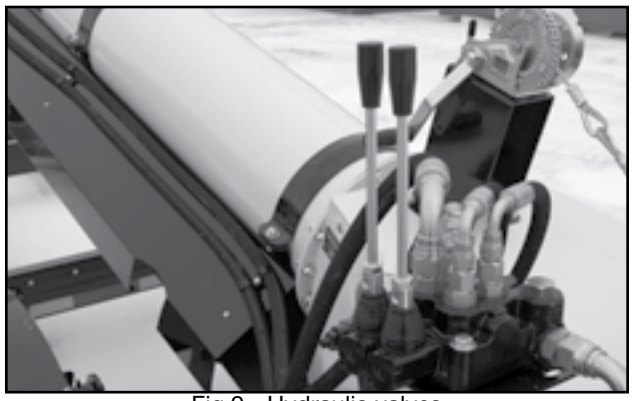
Fig 9 - Hydraulic valves

Hydraulic Lift for the Hopper:
There are hydraulic cylinders on the wheel axle to raise and lower the wheels, which move the drive-over deck. The valve is located on the stand.

There is a locking pin beside both wheels, to secure the axle to the frame for transportation.

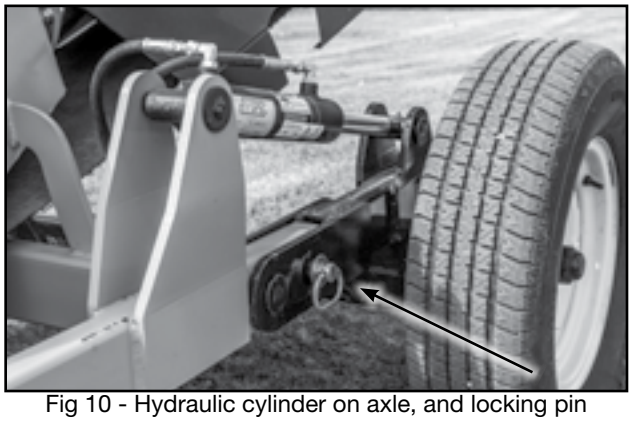
Fig 10 - Hydraulic cylinder on axle, and locking pin

Discharge Hood:
The Discharge hood is designed with brackets that allow it to tilt or be removed. This will facilitate throwing product at different angles.

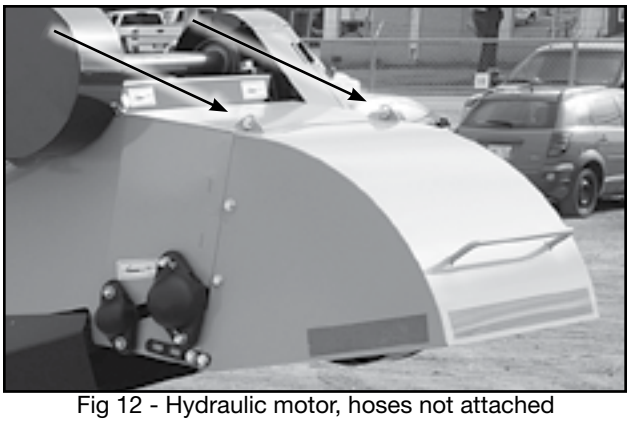
Fig 12 - Hydraulic motor, hoses not attached

⚠ WARNING

MOVING BELT HAZARD
Never walk on the belt.
It may inadvertently be turned on.

Chevron Belt with Alligator® Lacing:
Agriculture drive-over conveyors use a 2 ply, 220 weight, chevron belt with Alligator® Lacing.

Chevron Belt with Super Screw® Lacing:
Sand Series conveyors use a 2 ply, 220 weight, chevron belt with Super Screw® lacing.

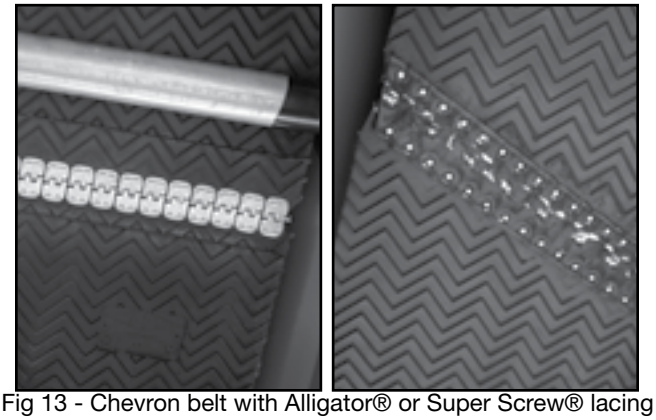
Fig 13 - Chevron belt with Alligator® or Super Screw® lacing

Containment Flap Winch:
Once the trailer or truck has driven over the deck, the containment flaps can be raised, with the winch, to help keep the product on the belt.

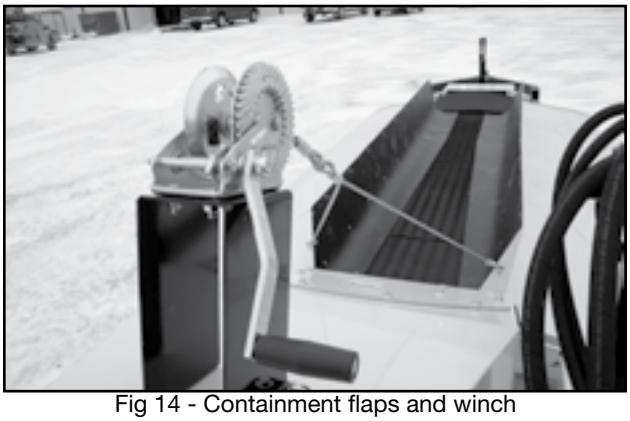
Fig 14 - Containment flaps and winch

⚠ CAUTION

TRIPPING HAZARD
Remove hitch from conveyor to prevent interference and clear a tripping hazard.

Hitch Assembly:
The hitch assembly consists of:
- Hitch frame
- Hitch insert
- Jack

The hitch frame is secured with pins to the front end of the deck. The hitch insert is held, by pins, to the frame. The jack can be inserted in the centre of the frame.

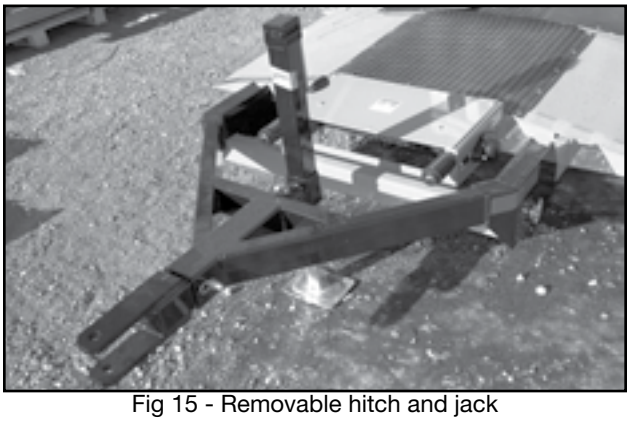
Fig 15 - Removable hitch and jack

3.2.1 Mover Kit (Optional):

There is a mover kit available for the drive-over conveyor. It is a self-contained unit including a gas engine which powers the hydraulics valves.

The mover kit has a step plate so the operator rides along as they drive the conveyor.

The mover kit easily replaces the hitch by removing and reinserting the locking pins in the same location.

1. Use the jack on the hitch to raise the conveyor bed.

2. Place the bed on blocks.

3. Remove the hitch, then install the mover kit.
   - Insert the locking pins in the same location.

4. Start the engine on the mover kit.

5. There are three hydraulic valves to operate the kit.

   a. Mover Kit Lever:
   This 4 position, spring-loaded lever controls the movement of the conveyor. It drives the wheel forward and reverse, left or right.

   b. Drive Wheel Raise and Lower:
   This lever raises and lowers the drive wheel which is below the mover kit.

   c. Axle Raise and Lower:
   This lever raises and lowers axle at the transition.

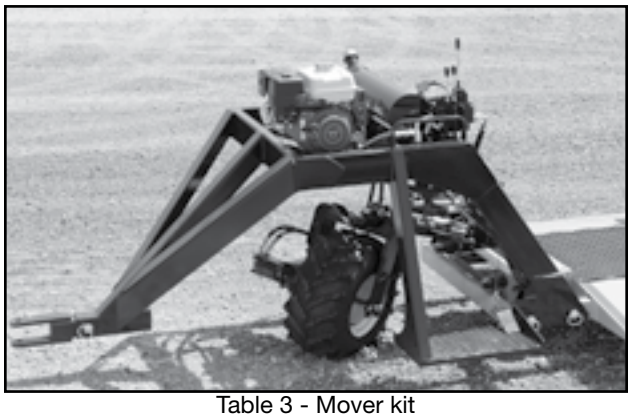

Table 3 - Mover kit

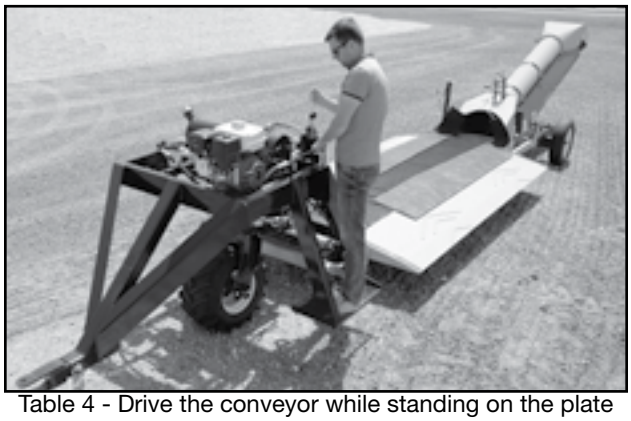

Table 4 - Drive the conveyor while standing on the plate

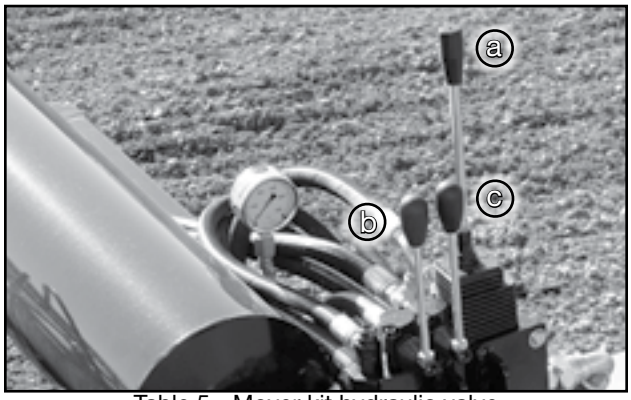

Table 5 - Mover kit hydraulic valve

3.3 MACHINE BREAK-IN

There is no operational restrictions on the conveyor when used for the first time.

The conveyor belt alignment is set at the factory, to track correctly without carrying a load.

Before Starting Work:

1. Read conveyor and engine operator manuals.

2. Run the unit for half an hour to seat the conveyor belt and flashing around the intake. It is normal for rubber from the flashing to be expelled out the discharge and form a pattern on the belt.

After Operating or Transporting for 1/2 hour:

3. Re-torque all the wheel bolts.

4. Check fuel, engine oil, and hydraulic oil level.

5. During the conveyors first few minutes of operation, check belt alignment to ensure preset alignment and tension does not vary under loaded conditions.

6. Check the flashing seal along the intake. If any product comes out of the hopper around the flashing; stop the belt, loosen flashing mounting screws and adjust. Retighten anchor screws and try again. Repeat until no product is lost.

7. Check condition of all hydraulic lines, hoses and connections. Repair or replace any damaged system components.

8. Check that all guards are installed and working as intended.

After Operating For 5 Hours and 10 Hours:
Repeat steps 1 through 8 above.

Service and maintain the conveyor as defined in Section 4: Service and Maintenance.

3.4 PRE-OPERATION CHECKLIST

Efficient and safe operation of the conveyor requires that each operator knows the operating procedures.

It is important for both the personal safety and maintaining the good mechanical condition of the machine that this checklist is followed.

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

1. Check worksite. Clean up working area to prevent slipping or tripping.

2. Be sure that the battery is fully charged. If needed, charge the battery before connecting it with the battery cables.

3. Lubricate and service the machine as per the schedule outlined in the Section 4.2.

4. Check that all guards are installed, secured and functioning as intended. Do not operate with missing or damaged shields.

5. Check that the drive and conveyor belts are properly tensioned and aligned.

   Ensure are not frayed or damaged.

6. Check that discharge and intake areas are free of obstructions.

3.5 ATTACHING TOW VEHICLE

The Drive-Over Conveyor weighs 1450 lb at the hitch. It is recommended that the conveyor be towed only short distances.

NOTICE

FRAME DAMAGE HAZARD
Because of its weight, the conveyor should be placed on a trailer, and tied down, for transportation over long distances.

1. Clear of the area of bystanders, and children.
2. Attach hydraulic lines to a tractor, lower the conveyor wheels, to raise the frame off the ground. Install the locking pins into the frame beside each wheel to secure it for transport.
3. **Gas Engine Units:**
   Retract engine mount to disengage drive belt.

   Hydraulic Hoses:
   Secure hydraulic hoses to prevent dragging.

   Electric Motor Units:
   Unplug the power cord, wrap it around frame and secure it to prevent dragging.
4. Be sure that there is sufficient room and clearance to back up to the conveyor.
5. Install the hitch (if not attached) and secure with the anchor pin and retainer before using.
6. Use the jack to lift hitch to drawbar height.
7. Set the park brake on the tow vehicle.
8. Attach the conveyor to the tow vehicle using the hitch pin with a retainer.
9. Secure the safety chain around the drawbar cage to prevent unexpected separation.
10. Tow the unit to the next location.

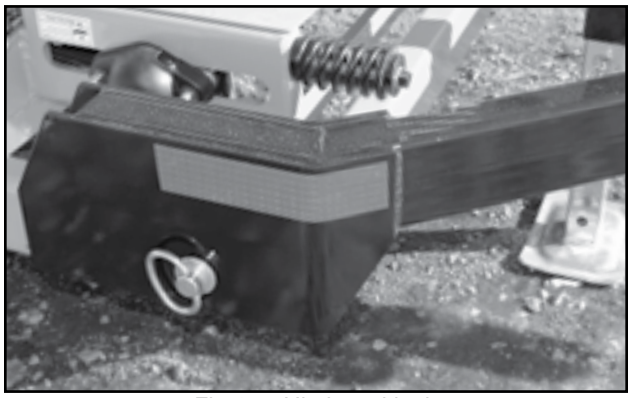
Fig 16 - Hitch and jack

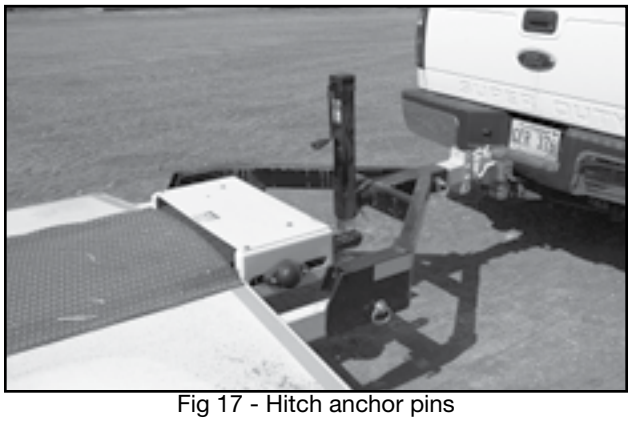
Fig 17 - Hitch anchor pins


Fig 18 - Haul drive-over on trailer

3.6 CONVEYOR PLACEMENT

Follow this procedure when placing the conveyor into its working position:

1. Clear the area of bystanders, especially small children, before starting.

2. Be sure there is enough clearance from other equipment to move the conveyor into its working position.

   Ensure that the discharge hood does not rest on the receiving conveyor.

3. If equipped with a mover kit:
   a. Start the mover kit's engine.
   b. Lower the drive wheel and move the conveyor into position.
   c. Once in place raise the drive wheel to set the frame on the ground.

4. Lower hydraulic cylinders, so the deck rests flat on the ground.

   Be sure to lower the flaps with the winch.

5. Detach the hitch and jack to remove them as safety hazards.

6. **Electric Motor Unit:**
   a. Have a certified electrician provide power to the machine.
   b. Provide convenient shutdown switches and comply with local electrical codes.
   c. Use a totally enclosed electric motor. Be sure electric motor is properly grounded.

   Hydraulic Drive Unit:
   a. Position the power unit next to the conveyor.
   b. Chocks the front and rear wheels of the power unit.
   c. Connect hydraulic hoses to the couplers.

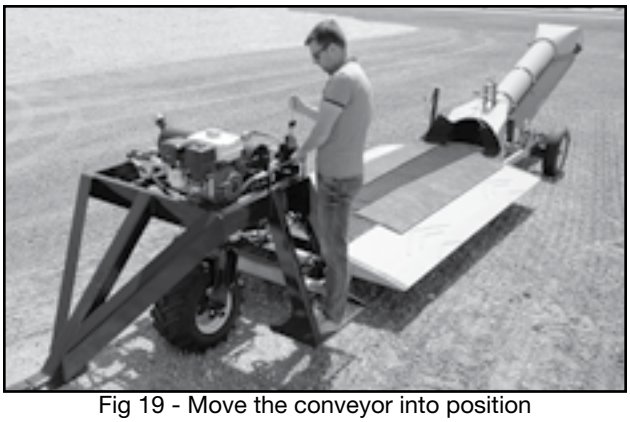
Fig 19 - Move the conveyor into position


Fig 20 - Conveyor ready for drive-over

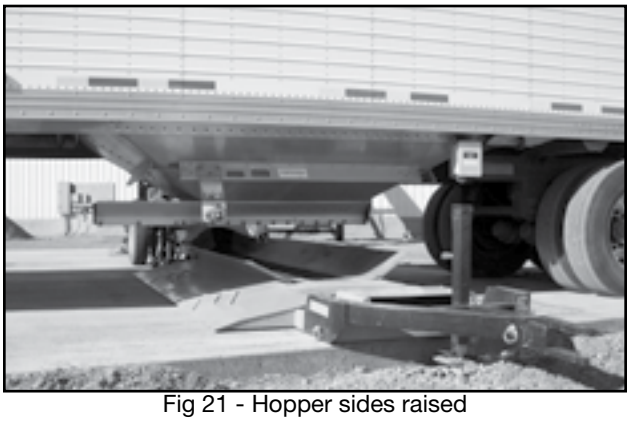
Fig 21 - Hopper sides raised

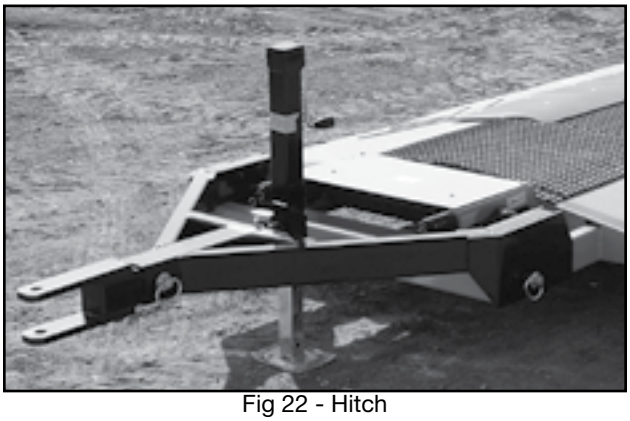
Fig 22 - Hitch

3.7 OPERATING CONVEYOR

3.7.1 Starting Conveyor:

Gas Engine Units:

1. Use the lever to retract the engine mount to loosen the drive belt tension.
2. Move throttle to its 1/4 position for starting.
3. Close choke if the engine is cold.
4. Turn ignition key to start engine.
   - or -
   Pull sharply on the starting rope until the engine starts.
5. Run until the engine warms and the choke is opened.
6. Use the lever on the engine mount to engage drive belt.
7. Increase engine speed to full throttle.
8. Start flow of product.

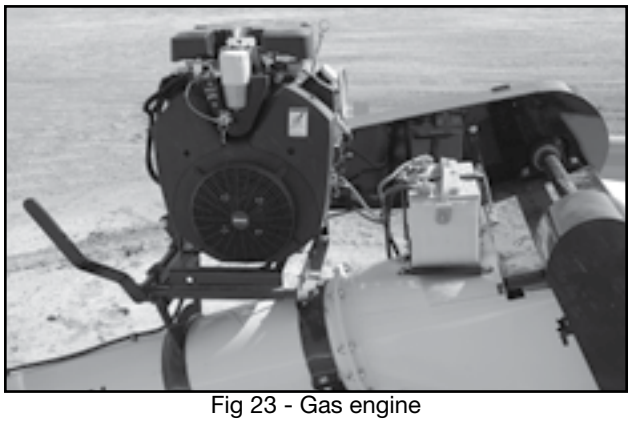
Fig 23 - Gas engine

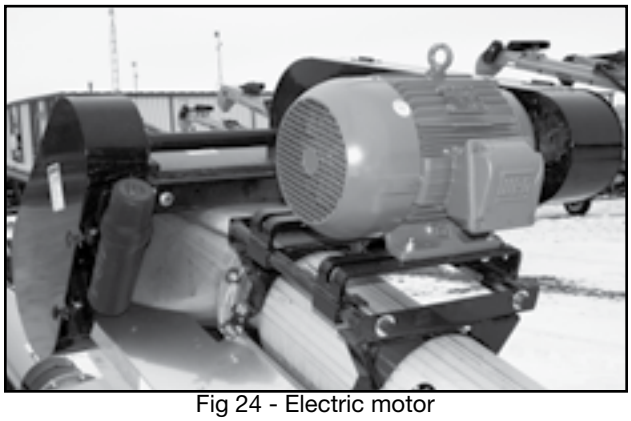
Fig 24 - Electric motor

Electric Motor Units:

1. Turn the electric motor ON.
2. Start the flow of product and unload.

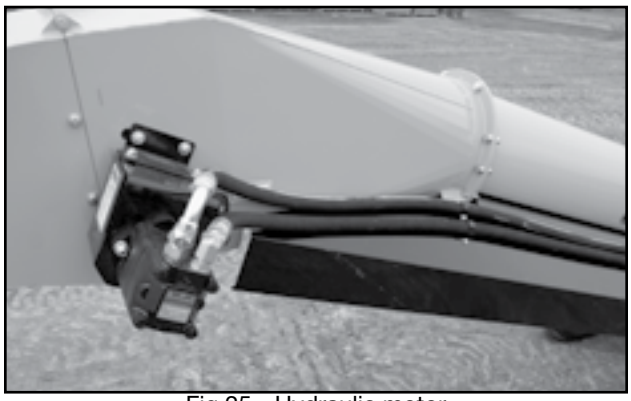
Fig 25 - Hydraulic motor

Hydraulic Drive Units:

1. Place all controls in neutral.
2. Start tractor engine and run at low idle.
3. Place hydraulic lever in detent.
4. Increase engine speed to rated RPM.
5. Begin unloading product onto the conveyor belt.

3.7.2 Stopping Conveyor:

Gas Engine Units:
1. Run until conveyor belt is empty.
2. Reduce speed to low idle.
3. Move engine mount to disengage drive belt.
4. Shut off engine

Electric Motor Units:
1. Run until the conveyor belt is empty.
2. Tum off motor and lock out power source.

Hydraulic Drive Units:
1. Run until the conveyor belt is empty.
2. Reduce tractor engine speed to low idle.
3. Place hydraulic lever in neutral.
4. Shut off engine.

3.7.3 Emergency Stopping:
Although it is recommended that the conveyor belt be emptied before stopping, in an emergency situation, stop or shut-down the power source immediately.

Correct the emergency before resuming work.

3.7.4 Restarting after Emergency Stop:
When the machine is shut down inadvertently or in an emergency, the conveyor belt will still be covered with material.

Since the start-up torque loads are much higher than normal when the belt is covered, restart at a low speed. It may be necessary to tighten the drive belt(s) slightly to handle the heavier than normal loads.

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

1. Place all controls in neutral or off, stop engine or motors and disable power source.
2. Remove the material from the discharge and the intake area.
3. Reposition unit if discharge area plugs due to lack of clearance.
4. Restart unit.

Fig 26 - Cross-over pad

3.8 OPERATING HINTS

- Always listen for any unusual sounds or noises. If any are heard, stop the machine and determine the source. Correct the problem before resuming work.

- Never allow anyone into the workplace hazard area. If anyone enters, stop immediately. The visitor must leave before resuming work.

- Position discharge hood appropriately for the application.

- The engine/motor should be set rotate the conveyor belt at a speed of 400 to 500 ft./min, for the best conveying results.

  Count the number of belt revolutions per unit of time to determine belt speed. Use the belt lacing as a reference when counting revolutions.

  Contact your dealer or the factory for the appropriate drive components to give the recommended belt speed.

- Do not run the machine for long periods of time with no material on the belting. This increases the wear. Try to run only when moving material.

- Keep the hopper full for maximum capacity.

- Most efficient results will be obtained when flow of incoming material is directed to the front of the hopper (closer to the tube).

- The hopper is designed with flashing to seal the junction of the belt with the sides of the hopper. It must be kept in good condition to prevent the material from "leaking" out of the hopper. Replace flashing if "leakage" occurs.

- This conveyor is designed with a rubber cross-over pad to facilitate stepping over the moving conveyor belt.

⚠ WARNING

EQUIPMENT FAILURE HAZARD
Keep cross-over pad in good condition.
Do not stand on it for long periods of time.

The pad is not meant to be used as a fixed standing location. Too much weight will wear out both the conveyor belt and cross-over pad

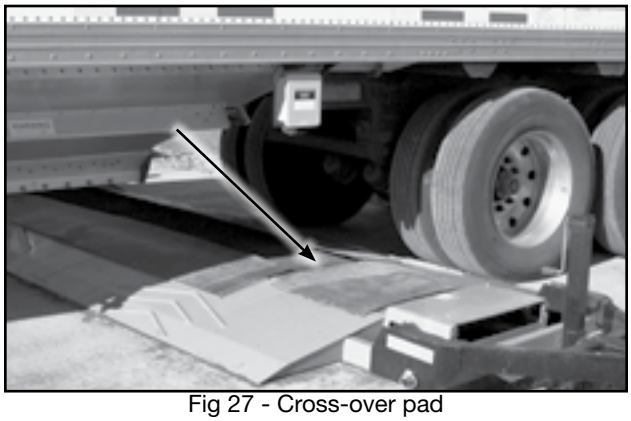

Fig 27 - Cross-over pad

3.9 SAND DRIVE-OVER CONVEYOR

The Sand Series drive-over conveyor is unique in a few important ways.

- It contains a hold-down wheel transition, instead of the "s-neck transition". The wheels assist in the belt's transition between the horizontal and incline portions of the unit.

- The tail roller is six (6) inches in diameter, instead of a three (3) inch roller on agriculture units.

- The conveyor belt is attached with Super Screw® lacing. This is a strong, durable connect, which is perfect for the added weight of moving sand.

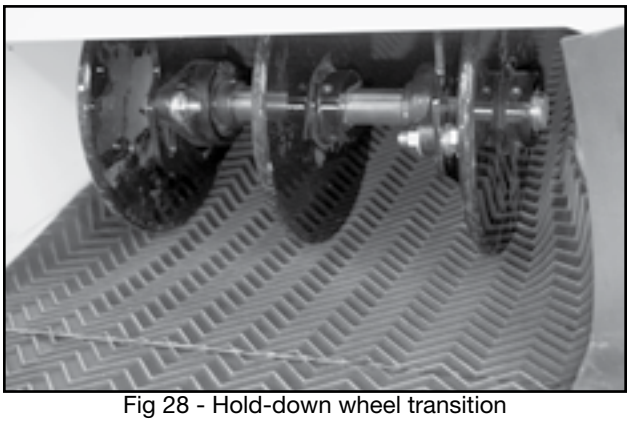
Fig 28 - Hold-down wheel transition

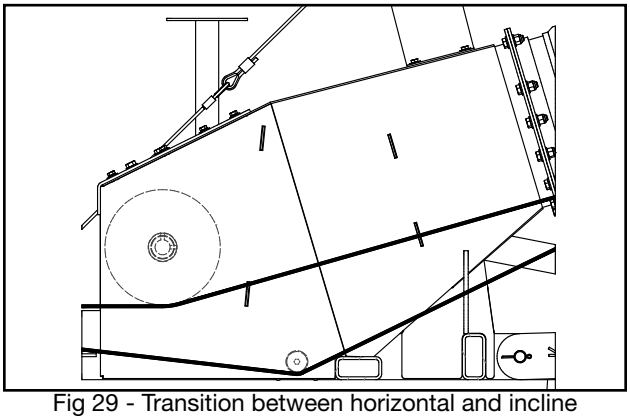
Fig 29 - Transition between horizontal and incline

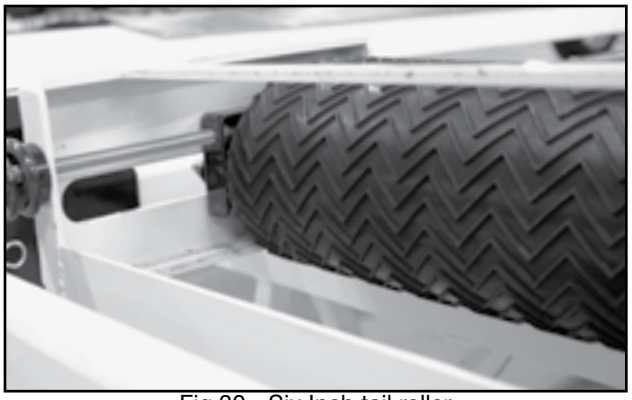
Fig 30 - Six Inch tail roller

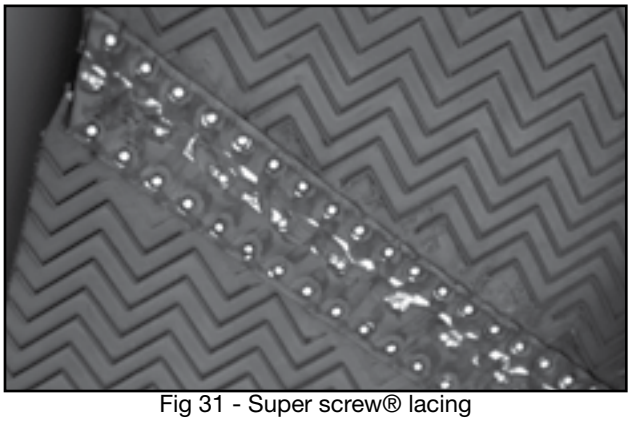
Fig 31 - Super screw® lacing

3.10 TRANSPORTING

NOTICE

FRAME DAMAGE HAZARD
Because of its weight, the conveyor should be placed on a trailer, and tied down, for transportation over long distances.

Drive-Over conveyors are heavy (1450 lb) and not designed to be towed long distances at highway speeds. Place it on a trailer, secure it, then tow it to the new location.

For transporting it locally:

1. Clear all bystanders from around the machine.
2. Attach the hitch and jack (if it was removed), and secure with the anchor pin and retainer.
3. Attach the hydraulic lines to a tractor so the wheels can be lowered, raising the deck.

   Install the locking pins into the frame beside each wheel. To secure for transport.
4. Use the jack to raise hitch to drawbar height.
5. Back the tow vehicle into place, then set the park brake before dismounting.
6. Attach conveyor to the vehicle, and place the hitch pin and use a retainer.
7. Secure the safety chain around the drawbar cage to prevent unexpected separation.
8. **Electric Motor Units:**
   Unplug the power cord, wrap it around frame and secure it to prevent dragging.

   Hydraulic Hoses:
   Disconnect hydraulic hoses, remove power source, wrap hose around frame and secure to prevent dragging.
9. Do not allow riders on the conveyor.
10. Slowly pull away from the working area.
11. Ensure the Slow Moving Vehicle (SMV) emblem, all lights and reflectors required by local highway and transport authorities are in place. They must be clean and clearly visible by all overtaking and oncoming traffic.
12. Keep to the right and yield the right-of-way to allow faster traffic to pass. Drive on the road shoulder, if permitted by law.
13. It is not recommended that the machine be transported faster than 32km/h (20mph).

Road Speed	Weight of fully equipped or loaded implement(s) relative to weight of towing machine
up to 32km/h (20mph)	1 to 1, or less
up to 16km/h (10mph)	2 to 1, or less
Do not tow	More than 2 to 1

14. During periods of limited visibility, use pilot vehicles or add extra lights to the machine.
15. Always use hazard flashers on the tractor when transporting unless prohibited by law.

Fig 32 - Transporting the conveyor

3.11 STORAGE

After the season's use, the conveyor should be thoroughly inspected and prepared for storage.

Repair or replace any worn or damaged components to prevent any unnecessary down time at the start of next season.

To have a long, trouble free life, this procedure should be followed when preparing the unit for storage:

1. Wash the entire machine thoroughly using a water hose or pressure washer to remove all dirt, mud, debris or residue.

2. Lubricate all grease fittings (refer to Section 4.2.1). Make sure that all grease cavities have been filled with grease to remove any water residue from the washing. This also protects the bearing seals.

3. Inspect all moving or rotating parts to see if anything has become entangled in them. Remove the entangled material.

4. Check the condition of the conveyor belt. Replace if necessary.

5. Touch up all paint nicks and scratches to prevent rusting.

6. **Gas Engine with Battery:**
   Remove the battery.
   - Be sure it is fully charged.
   - Store it inside.
   - Do not sit the battery on a cold, concrete floor.

7. **Hydraulic Components:**
   Inspect all hydraulic hoses, fittings, lines, couplers and fittings. Tighten any loose fittings. Replace any hose that is badly cut, nicked or abraded or is separating from the crimped end of the fitting.

   Apply a light coat of oil to the roller chain coupler to prevent rusting.

8. Select a storage area that is dry, level and free of debris.

   If the machine cannot be placed inside, cover the gas engine or electric motor with a water proof tarpaulin and tie securely in place.

9. Set the deck on the ground to relieve the weight of the frame off the wheels.

10. Store machine in an area away from human activity.

11. Do not allow children to play on or around the stored machine.

IMPORTANT:
If conveyor has been stored for over 6 months, run engine for 2-3 minutes. Then, change oil, while still warm, to remove any condensation.

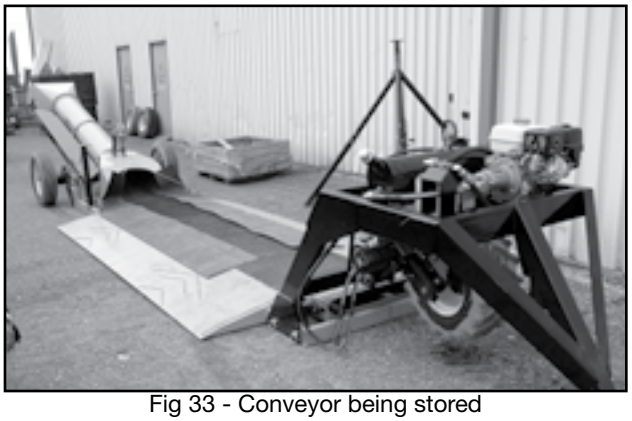
Fig 33 - Conveyor being stored

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Section 4: SERVICE AND MAINTENANCE

⚠ WARNING

- Review the Operator's Manual and all safety items before maintaining the conveyor.
- Clear the area of bystanders, especially children, before repairing or adjusting.
- Before servicing, repairing or unplugging; place controls in neutral, stop engine, remove ignition key and wait for moving parts to stop.
- Follow good shop practices:
  - Keep service area clean and dry.
  - Be sure electrical outlets and tools are properly grounded.
  - Use adequate light for the job at hand.
- Relieve pressure from the hydraulic circuit before servicing.
- Before applying pressure to a hydraulic system, make sure all components are tight, hoses and couplings are in good condition.
- Keep hands, feet, hair and clothing away from all moving and/or rotating parts.
- Make sure there is plenty of ventilation. Never operate the engine in a closed building. The exhaust fumes may cause asphyxiation.
- Place stands or blocks under frame before working beneath the unit.
- When maintenance is complete, before resuming work, install and secure all guards.
- Keep decals clean, replace if not readable.

By following the operating instructions, in conjunction with a good maintenance program, your conveyor will provide many years of trouble free service.

3.12 FLUIDS AND LUBRICANTS

Fuel and Engine Oil:
If equipped with an engine, refer to the operator's manual for specific information.

Grease:
Use an SAE multipurpose high temperature grease with extreme pressure (EP) performance. Also acceptable, SAE multipurpose lithium based grease.

Hydraulic Oil:
If equipped with self-contained hydraulics, use an ISO grade 36 hydraulic oil for all operating conditions (Hydrex MV36 or comparable).

3622000003

Storing Lubricants:
Your machine can operate at top efficiency only if clean lubricants are used. Use clean containers to handle all lubricants.

Store them in an area protected from dust, moisture and other contaminants.

4.12.1 Greasing:

NOTICE

GREASING HAZARD
Too much grease causes excessive overheating.
Under-greasing accelerates equipment wear.

No grease should be seen around bearings.
If there is, too much grease was applied and the seal has ruptured!

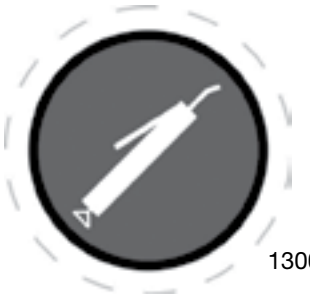
13000006014

Fig 34 - Lubricate decal

IMPORTANT:
Grease bearings only one pump per month under normal usage conditions.

Bearing greasing frequency should be determined by usage and conditions.

Fig 35 - Drive-over conveyor

1. Use a hand-held grease gun for all greasing.
2. Wipe grease fitting with a clean cloth before greasing, to avoid injecting dirt and grit.
3. All bearings are greasable, but require only minimal grease.

   Recommended greasing is one small stroke every month. Be careful not to over-grease as this may push the seal out.
4. Replace and repair broken fittings immediately.
5. If fittings will not take grease, remove and clean thoroughly. Also clean lubricant passageway. Replace fitting if necessary.

4.1 SERVICING INTERVALS

Use the Service Record provided on page 4-15, to keep a record of all scheduled maintenance.

The conveyor belt alignment is preset to run true under a condition of no load. It is important to check alignment and make adjustments, if required, during the initial few minutes of loaded operation.

Check bearings for wear daily.

The following recommended periods are based on normal operating conditions. Severe or unusual conditions may require more frequent lubrication and oil changes.

Schedules may vary depending on options and engine model contained in your equipment.

IMPORTANT:
For engine servicing and maintenance, refer to it's manual for complete details.

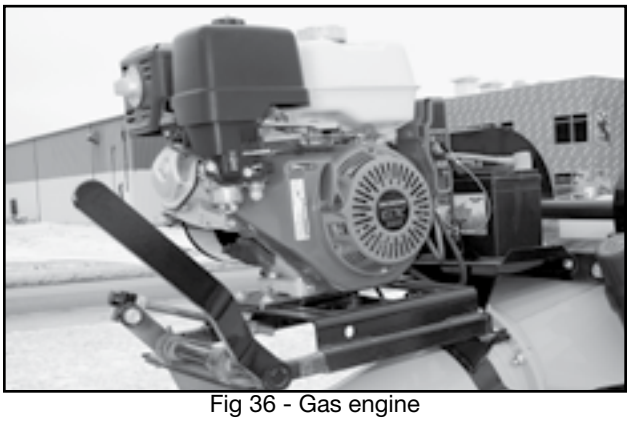
Fig 36 - Gas engine

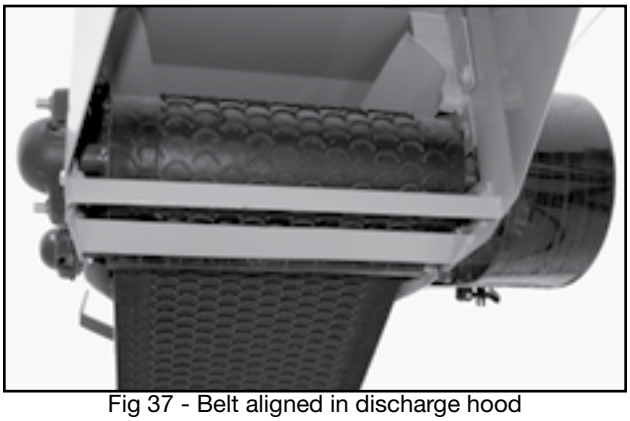
Fig 37 - Belt aligned in discharge hood

4.1.1 After 10 Hours or Daily:

1. Check fuel level.
   - Add as required.

2. Check oil level in hydraulic reservoir (if equipped).
   - Add as required.

3. Inspect conveyor belt lacing for wear.

4. Check the conveyor belt tension daily while breaking-in the conveyor.
   - Refer to Section 4.2.2

5. Check the conveyor belt alignment frequently during the first 10 hours of operation until it seats itself. Refer to Section 4.2.2

6. Inspect all rollers and bearings for play and wear.
   - Replace if necessary.

4.1.2 After 50 Hours or Weekly:

7. Check the conveyor belt tension.

   Watch the tension more often while breaking-in the conveyor, because the belt may stretch. Refer to Section 4.3.1

Note:
A properly tensioned belt will not slip when in operation.

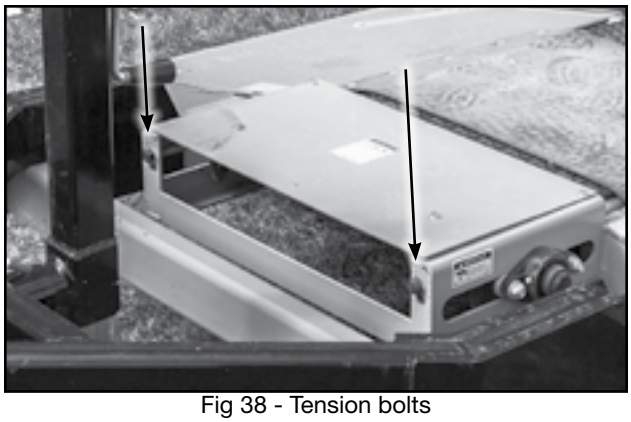
Fig 38 - Tension bolts

8. Check the conveyor belt alignment.
   - How the belt is aligned to rollers must be checked at hopper, transition, and discharge.

   Watch the alignment more frequently during the first 10 hours of operation. It usually seats itself and can be checked weekly after that. Refer to Section 4.3.2

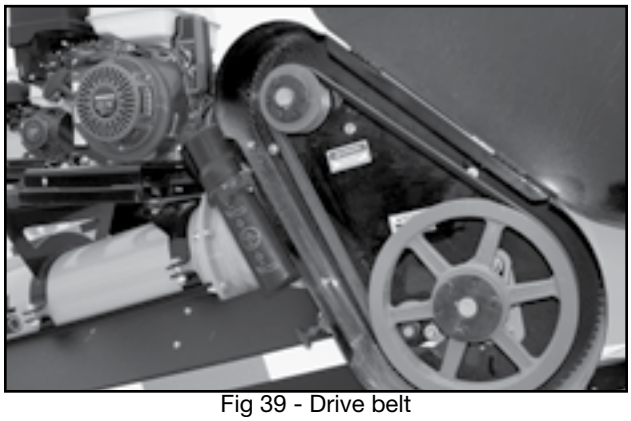
Fig 39 - Drive belt

9. Inspect drive system:
   - Check V-belts for wear.
   - Check drive belt tension.
   - Check pulley alignment.
   - Check and lubricate counter shaft.

10. Check the condition of the rubber flashing along the deck bed and the transition. Be sure it still seals to prevent leaking.

    If any product comes out of around the flashing, loosen flashing mounting screws and adjust. Retighten anchor screws and try running the conveyor again. Repeat until no product is lost.

    If the flashing is stuck to the belt, manually peel the flashing off. Replace it if necessary.

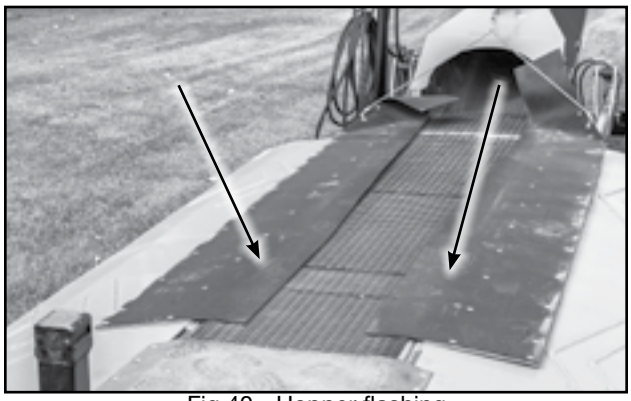
Fig 40 - Hopper flashing

11. Inspect the coupler in the hydraulic motor for wear.

12. Oil hydraulic drive coupler or chain.

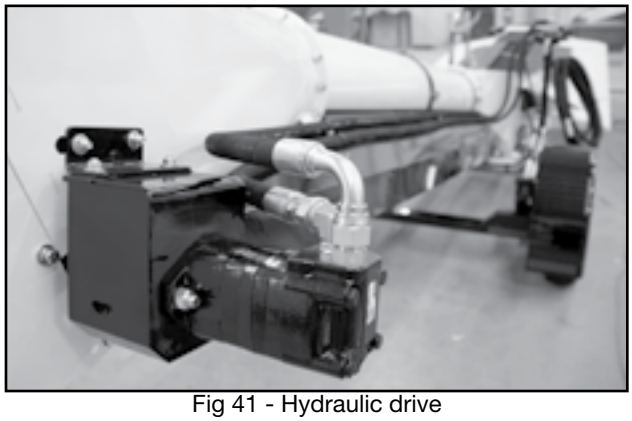
Fig 41 - Hydraulic drive

4.1.3 After 100 Hours or Monthly:

Note:
Recommended greasing is one small stroke every month. Be careful not to over grease as this may push the seal out.

13. Grease tail roller bearings.

14. Grease transition roller bearings.

15. Grease discharge roller bearings.

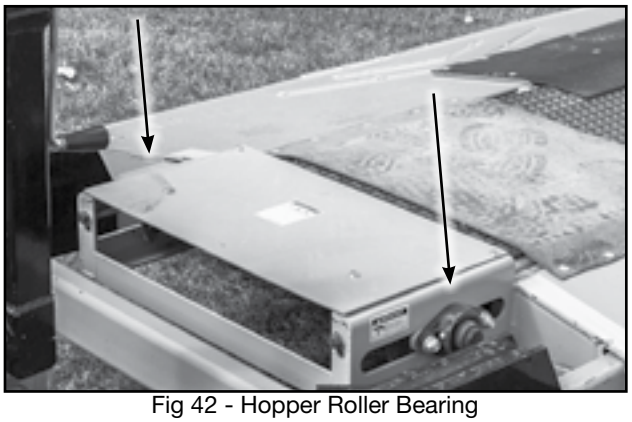
Fig 42 - Hopper Roller Bearing

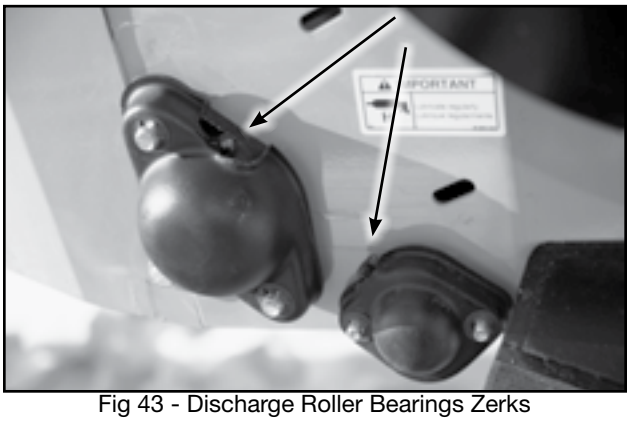
Fig 43 - Discharge Roller Bearings Zerks

4.1.4 After 200 hours or Annually:

16. Refer to the engine manual for specific service and maintenance schedules.

17. If equipped with self-contained hydraulics:
    - Take a hydraulic oil sample and send it to a lab for particle count analysis.
    - Change oil if necessary.
    - Change the hydraulic oil filter.

18. Check that the battery retains its maximum charge.

19. Grease the wheel axle cylinders.

20. If equipped with a mover kit:
    - Grease the drive wheel lift cylinder.

21. Repack the wheel bearings.

22. Wash the entire machine thoroughly using a water hose or pressure washer to remove all dirt, mud, debris or residue.
    - Wash the outside.
    - Wash around the deck.
    - Leave the belt running while washing inside the tube and around the belt.


Fig 44 - Discharge Roller Bearings Zerks

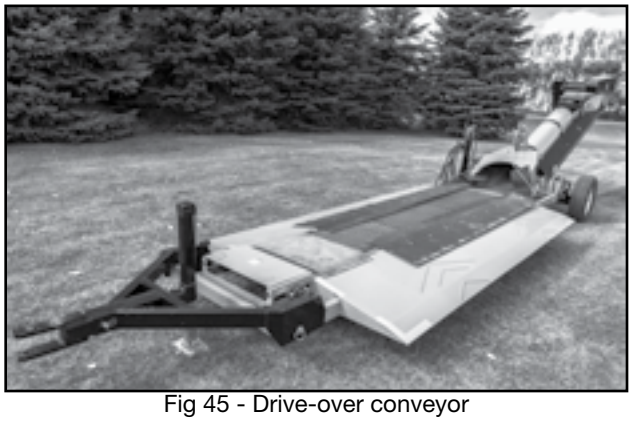
Fig 45 - Drive-over conveyor

4.2 MAINTENANCE PROCEDURES

By following a careful service and maintenance program for your machine, you will enjoy many years of trouble-free service.

Note:
Refer to the engine manual for complete details on your particular model.

⚠ WARNING

ROTATING BELT HAZARD
Turn off engine, lock-out power and wait for all components to stop moving before adjusting the belt.

Idle the engine,
then rotate the belt slowly when checking it.

4.2.1 Conveying Belt Tension:

The tension of the belt should be checked weekly, or more often if required. Be sure that it does not slip.

1. Loosen the tail roller bearing anchor bolts.

2. Rotate the tension bolts to set the tension of the belt.

   The conveying belt should not slip on its drive and tail rollers during operation.

IMPORTANT:
If tensioning the belt while it is running, adjust in small incriminates, alternating between the two bolts often. This will keep the belt aligned.

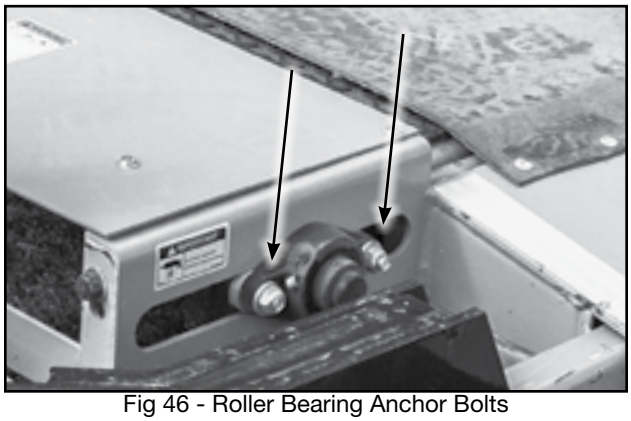

Fig 46 - Roller Bearing Anchor Bolts

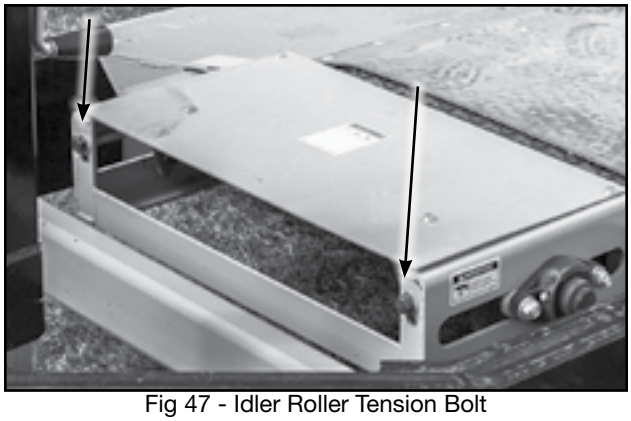

Fig 47 - Idler Roller Tension Bolt

4.2.2 Conveyor Belt Alignment:

NOTICE

BELT DAMAGE HAZARD

Alignment of the belt must be checked at the tail and discharge. Inspect weekly. Unaligned belt will cause damage and void warranty.

NOTICE

BEARING FAILURE

If a roller is replaced, ensure both ends are evenly aligned with the frame before running. If not, bearing failure may occur.

The belt is properly aligned when it runs in the centre of all rollers.

Check frequently during the first few minutes of operation with a new belt, and then several times during the first 10 hours.

The new belt normally seats itself during the first 10 hours of operation and can be checked weekly after that.

⚠ WARNING

ROTATING BELT HAZARD
Idle the engine,
then rotate the belt slowly when checking the alignment.

Turn off engine when adjusting rollers.

Note:
If belt is out of alignment,
it will move to the loose side.
Tighten loose side or loosen tight side.

Belt Alignment at Tail Roller:

1. Rotate the conveyor belt slowly, and check the position of the belt on the tail roller.
2. Adjust one side of roller at a time.
   - Loosen bearing housing, then adjust the tension bolt.
3. Tighten the tail roller bearing housing.
4. Rotate the conveyor belt slowly, and check the position of the belt on the hopper roller.
   - Repeat steps until the belt is centred.
5. Replace housing guard.

Belt Alignment at Transition:

6. Adjust only the top roller, the lower one won't make a difference.
   - Adjust one side of roller at a time.
   - Loosen bearing housing and adjust.
7. Tighten the housing.
8. Rotate the conveyor belt slowly, and check the position of the belt.
   - Repeat steps until the belt is centred.
9. Replace housing guard.

Belt Alignment at Discharge Roller:

10. If necessary, remove the discharge spout to view the roller.
11. Adjust one side of roller at a time.
    - Loosen the bearing housing, then adjust.
12. Tighten the discharge roller bearing housing.
13. Run the belt a couple of revolutions and check the alignment.
    - Repeat steps until the belt runs centred.
14. Replace the bearing housing guard.

4.2.3 Belt with Alligator® Lacing Replacement:

1. Rotate the belt until the lacing is positioned on the deck so it can be worked on easily.
2. Adjust the tension bolt at the tail roller to its loosest position. See Figure 46.
3. Remove the rubber flashing from deck bed.
4. Pull all the slack to the lacing area.
5. Remove the lacing cable and open the belt.
6. Attach one end of the new belt to the end of the existing belt (to be removed).
7. Pull the end of the old belt; the new belt will follow and be threaded into place.
8. Disconnect the old belt.
9. Link the ends of the new belt lacing.
10. Push the lacing cable through the lacing.

Note:
A cordless drill can be used to thread the cable.

11. Cut off excess cable.
12. Crimp lacing at both ends to lock cable in place.
13. Cut and taper belt corners, at both ends of lacing.
14. Reattach the flashing around the deck.

IMPORTANT:
Taper the belt corners, so they don't catch when running.

15. Set the belt tension and alignment.

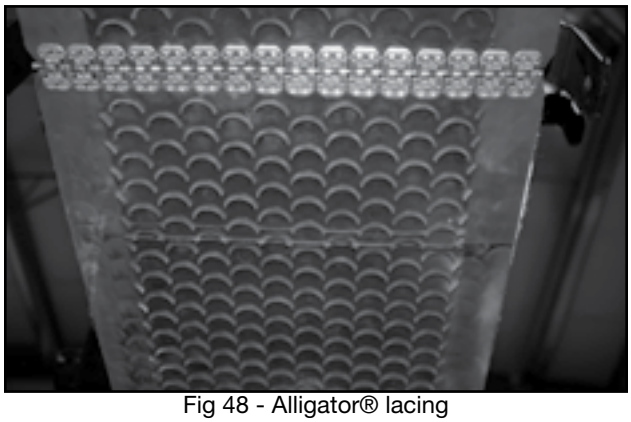
Fig 48 - Alligator® lacing

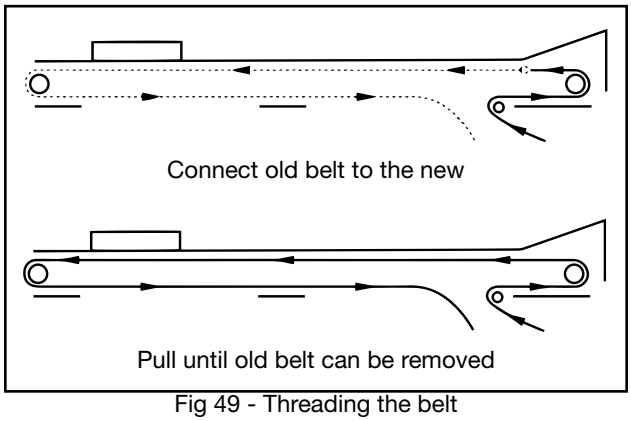

Fig 49 - Threading the belt

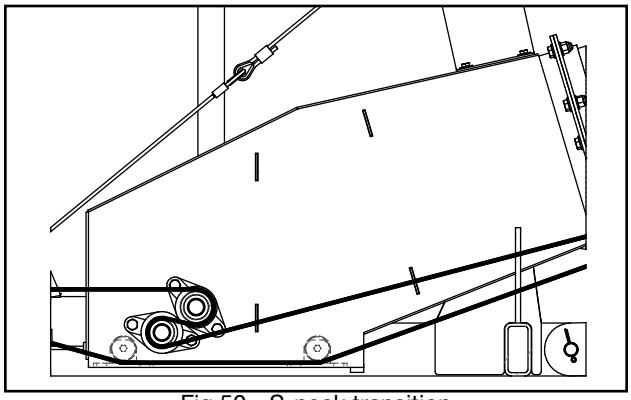
Fig 50 - S-neck transition

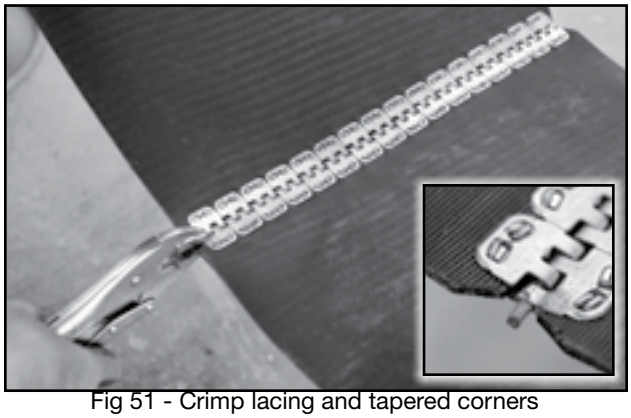
Fig 51 - Crimp lacing and tapered corners

4.2.4 Belt with Super-Screw® Lacing Replacement:

Refer to the document from Minet Lacing Technology (MLT), in the Reference Section for exact instructions on installing Super-Screw® lacing.

1. Rotate the belt until the lacing is accessible on the deck so it can be worked on easily.

2. Move the tensioning bolts to their loosest positions.

3. Remove the rubber flashing from deck bed.

4. Pull the slack to the lacing area.

5. Disconnect the belt by removing the screws from one side of the lacing.

6. Attach the new belt to the end of the existing belt (which will be removed).

7. Pull the end of the old belt; the new belt will follow and be threaded into place.

8. Disconnect the old belt when both ends of the new belt are accessible.

Note:
Normally, the belt is cut to exact length, and lacing attached to the trailing end, by the factory before shipping.

9. If necessary, use the reference document from Minet Lacing Technology to cut and prepare the ends of the belt.

10. Use a piece of wood as backing, where the screws will be drilled into the lacing.

    The screws are long enough to protrude through the belt.

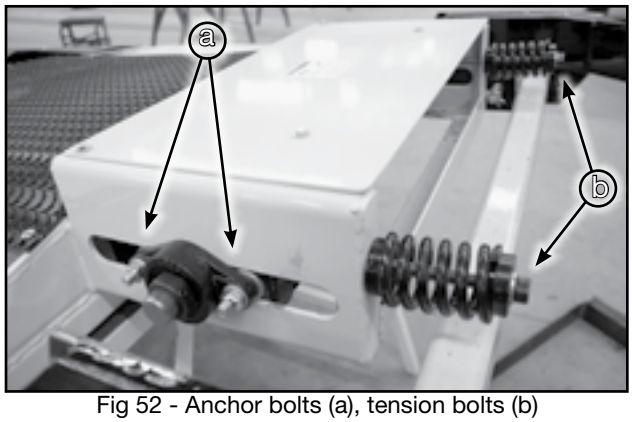

Fig 52 - Anchor bolts (a), tension bolts (b)

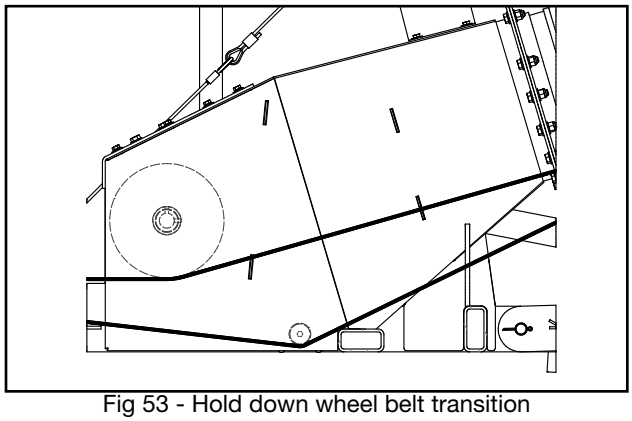
Fig 53 - Hold down wheel belt transition

11. Remove the centre spacers from the lacing, so the trailing edge and leading edge of belt touch inside lacing.

12. Join the two ends of the new belt.
    - Ensure that the belt ends touch inside the Super-Screw® lacing.

Important:
Do not use Impact Drill to insert screws.
Cordless drill works best;
it stops immediately on release of trigger.

13. Use a PZ2 drill bit.

Note:
Drill screws from the back of belt.

14. Drill screws from the back of the belt, so the tips face the front, chevron side.
    - The head of the screws should be slightly counter-sunk.

15. Begin in the middle of lacing, and work towards the edges.

16. Grind down the protruding points of the screws on the top of the belt.

17. Tighten the tensioning bolts at the tail.
    - Secure the roller bearing housings.

18. Set the belt tension and alignment.
    - Refer to Sections 4.3.1 and 4.3.2.

19. Check the tension and alignment of the conveyor belt frequently during the first 10 hours of operation and set as required.

    Normally a conveyor belt will seat itself during the first 10 hours of operation and then require less or no adjustment.

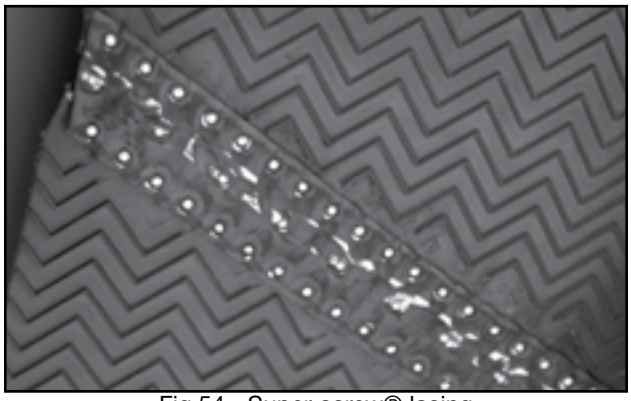

Fig 54 - Super-screw® lacing

Fig 55 - PZ2 bit and screw

4.2.5 Drive Belt Tension:

To adjust belt tension, follow this procedure:

⚠ WARNING

ROTATING PART HAZARD
Turn off engine or motor, remove power supply and wait for all belts to stop rotating.

"Counter Shaft to Drive" Belt:

1. Open the guard to the V-belt pulleys.
2. Loosen counter shaft bearing mount anchor bolts and jam nuts.
3. Use bearing mount position bolts to adjust countershaft position and set belt tension.

   Calculate the tension (See Figure 55):
   - Measure the length of span between pulleys.
   - Allow 1/64" of deflection per inch of span.
4. Tighten bearing mount anchor bolts.
5. Tighten jam nuts on the adjusting bolts.
6. Close and secure guard over pulleys.

"Engine to Counter Shaft" Belt:

7. Open the guard to the V-belt pulleys.
8. Loosen engine/motor mount.
9. Use motor mount bolts to set belt tension.

   Calculate the tension (See Figure 55):
   - Measure the length of span between pulleys.
   - Allow 1/64" of deflection per inch of span.
10. Tighten motor mount anchor bolts.
11. Close and secure guard over pulleys.

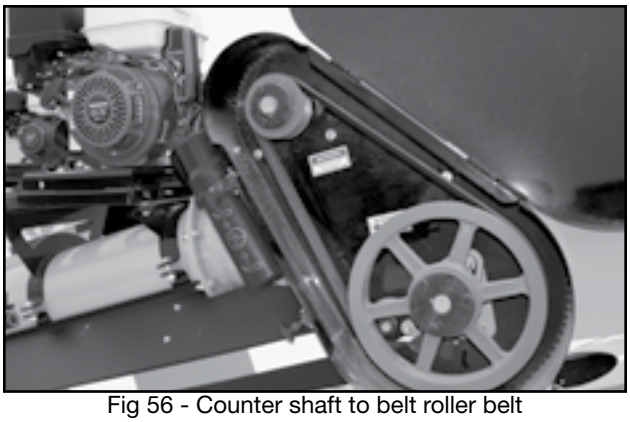

Fig 56 - Counter shaft to belt roller belt

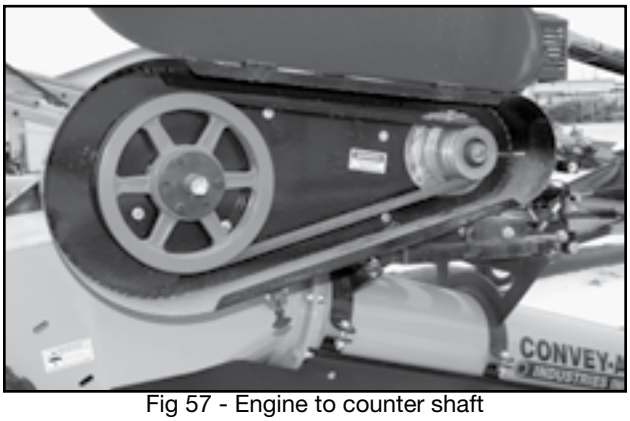

Fig 57 - Engine to counter shaft

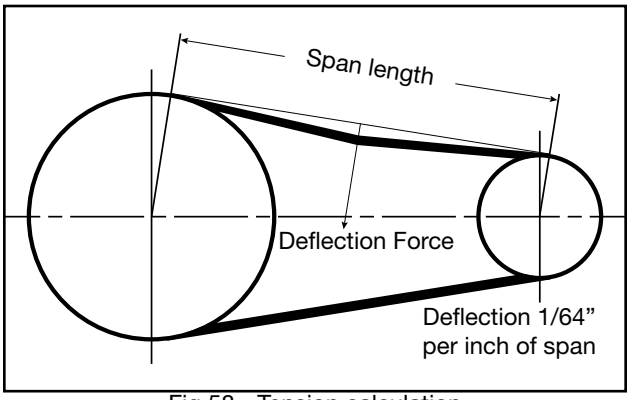

Fig 58 - Tension calculation

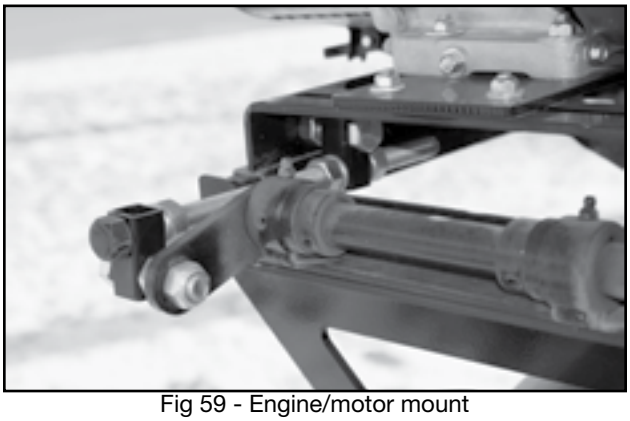

Fig 59 - Engine/motor mount

4.2.6 Check Pulley Alignment:

1. Use a straight edge across both drive and driven pulleys to check alignment.

2. Use the tapered lock hub in the center of the pulley to adjust the position of a pulley if required.

3. Move a pulley to align if there is more than a 1/32 inch gap between the edge of the pulley and the straight edge.

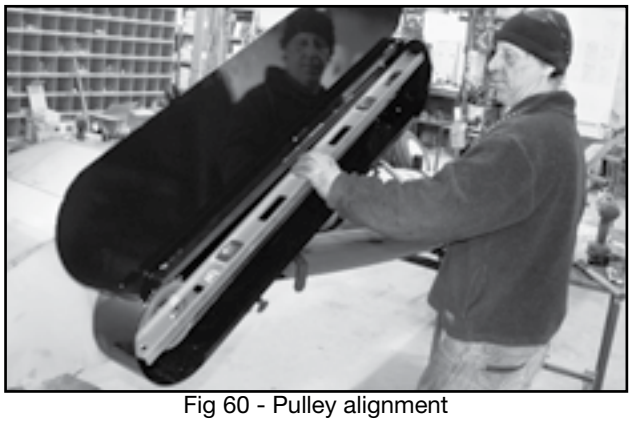

Fig 60 - Pulley alignment

4.2.7 Drive Belt Replacement:

1. Move the drive to loosen the belt.

2. Remove old belt.

3. Install replacement belt.

4. Set the belt tension.
   Refer to Sections 4.3.5.

5. Set the pulley alignment.
   Refer to Section 4.3.6.

Cross Section	Smallest Sheave Diameter Range	RPM Range	Belt Deflection (Force Pounds)			
			Uncogged Hy-T® Belts and Uncogged Hy-T® Torque Team®		Cogged Torque Flex® and Machined Edge Torque Team® Belts	
			Used Belt	New Belt	Used Belt	New Belt
A, AX	3.0 - 3.6	1000-2500 2501-4000	3.7 2.8	5.5 4.2	4.1 3.4	6.1 5.0
	3.8 - 4.8	1000-2500 2501-4000	4.5 3.8	6.8 5.7	5.0 4.3	7.4 6.4
	5.0 - 7.0	1000-2500 2501-4000	5.4 4.7	8.0 7.0	5.7 5.1	9.4 7.6
B, BX	3.4 - 4.2	860-2500 2501-4000	n/a	n/a	4.9 4.2	7.2 6.2
	4.4 - 5.6	860-2500 2501-4000	5.3 4.5	7.9 6.7	7.1 6.2	10.5 9.1
	5.8 - 8.6	860-2500 2501-4000	6.3 6.0	9.4 8.9	8.5 7.3	12.6 10.9
C, CX	7.0 - 9.0	500-1740 1741-3000	11.5 9.4	17.0 13.8	14.7 11.9	21.8 17.5
	9.5 - 16.0	500-1740 1741-3000	14.1 12.5	21.0 18.5	15.9 14.6	23.5 21.6
D	12.0 - 16.0	200-850 851-1500	24.9 21.2	37.0 31.3	n/a	n/a
	18.0 - 20.0	200-850 851-1500	30.4 25.6	45.2 38.0	n/a	n/a
Cross Section	Smallest Sheave Diameter Range	RPM Range	Uncogged Hy-T® Wedge Belts and Uncogged Hy-T® Wedge Torque Team®		Cogged Hy-T® Wedge Belts and Hy-T® Wedge Machine Edge Torque Team®	
			Used Belt	New Belt	Used Belt	New Belt
5V	4.4 - 6.7	500-1749 1750-3000 3001-4000	n/a	n/a	10.2 8.8 5.6	15.2 13.2 8.5
	7.1 - 10.9	500-1740 1741-3000	12.7 11.2	18.9 16.7	14.8 13.7	22.1 20.1
	11.8 - 16.0	500-1740 1741-3000	15.5 14.6	23.4 21.8	17.1 16.8	25.5 25.0

Table 6 - Belt deflection force

4.2.8 Change Hydraulic Oil:

1. Place all controls in neutral, stop engine and remove ignition key before maintaining.

⚠ WARNING

HOT LIQUID HAZARD
Engine and hydraulics must cool before changing the oil. Hot oil can cause burns if it contacts exposed skin.

IMPORTANT:
Annually, have an oil sample tested for particle count.

Change oil only if necessary.

2. Allow the hydraulics to cool slightly before changing oil.

Note:
It is best to change oil while the engine is warm (not hot) to keep contaminants in suspension.

3. Place a large pan or pail under the drain plug.
   - Reservoir capacity is 95 Litre (25 US Gal).
4. Remove drain plug and allow to drain for ten minutes.
5. Install and tighten the drain plug.
6. Dispose of the used oil in an approved container and manner.
7. Fill the reservoir with specified oil.

4.2.9 Change Hydraulic Oil Filter:

1. Place a pan under filter to catch any spilled oil.
2. Remove hydraulic oil filter, and dispose of it.
3. Fill the new filter with hydraulic oil.
4. Apply a light coat of oil to the O-ring and install the new filter. Snug up by hand and then tighten another 1/2 turn.
5. Run the engine for 1-2 minutes and check for oil leaks.
6. If leaks are found around the drain plug or filter, tighten slightly.
7. Check oil level. Top up as required.

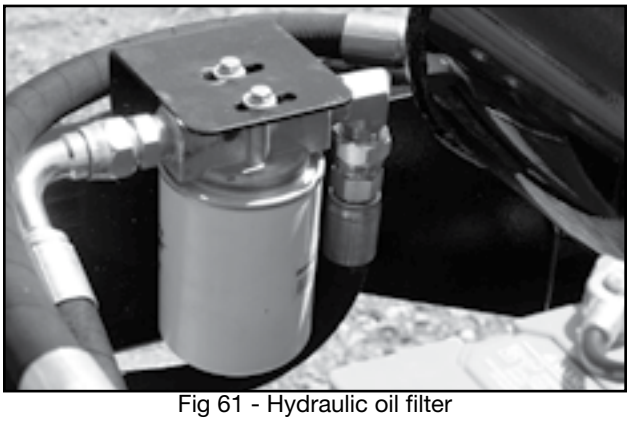

Fig 61 - Hydraulic oil filter

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Fig 62 - Hydraulic oil decal

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4.3 SERVICE RECORD

See Section 4.2 for service intervals. This section is only a general guide under good conditions. Under extreme, or unusual circumstances adjust service timing accordingly.

For more detailed schedule pertaining to the specific engine model, consult its Operator Manual.

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Maintenance / Hours														
Serviced By														
10 Hours or Daily														
Check Fuel Level														
Check Hydraulic Oil Level														
Inspect Conveyor Belt Lacing														
Inspect Rollers and Bearings														
50 Hours or Weekly														
Check Conveyor Belt Tension														
Check Conveyor Belt Alignment														
Inspect Drive System														
Check Deck Belt Flashing														
Inspect Hydraulic Drive Coupler/Chain														
Oil Hydraulic Drive Coupler/Chain														
100 Hours or Monthly														
Grease Tail Roller Bearings														
Grease Transition Roller Bearings														
Grease Discharge Roller Bearings														
200 Hours or Annually														
Change Hydraulic System Oil and Filter														
Check the Battery														
Grease Wheel Axel Cylinders														
Grease Drive Wheel Lift Cylinder														
Repack Wheel Bearings														
Wash Conveyor														

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Section 5: TROUBLESHOOTING

In the following trouble shooting section, we have listed many of the problems, causes and solutions to the problems which you may encounter.

If problems are confronted which are difficult to solve, even after having read through this section, please contact your authorized dealer, distributor or Meridian Manufacturing Inc. Before you call, please have this Operator's Manual and the unit's serial number ready.

Problem

Possible Cause	**Possible Remedy**

Engine/Motor won't start

Low battery	Recharge or replace
No fuel	Refuel
Air cleaner dirty	Clean the air cleaner, and/or replace the air filter

Hydraulic system - No hydraulic flow

Flow valve closed or plugged	Open flow curcuit valve
	Replace plugged hydraulic fliter

Engine/Motor labouring

Belt is sticky on the back side, because of oily product or wet/snowy conditions	Clean the belt
Hopper flashing too tight	Adjust to loosen the flashing

Conveyor belt doesn't turn or is slipping

Hopper flashing may be stuck to belt, because it is running dry and rubber is heating up	Turn off unit! Manually peel flashing up and off hopper. Then run dry product through to create barrier between flashing and belt
Belt loose	Tighten and align
Conveyor belt loose because it has stretched	Shorten belt
Belt frozen to tube from operating in high humidity conditions in extreme cold	Remove conveyor from area of high humidity and continue to run empty so the belt dries prior to freezing.
Drive belt loose	Tighten drive belt
No power	Start engine, increase speed to maximum RPM

Problem

Possible Cause	Possible Remedy

Conveyor belt doesn't turn or is slipping - cont'd

Gas/Electric system - Drive roller is slipping	Replace V-belt
Hydraulic system - valve, pump or motor could be malfunctioning	Check and adjust pressure set screw on valve. Test flow from pump. Check for oil leaks under motor. Replace what is needed.
Seized bearing	Check all bearings, Replace any that are rough or seized
Belt/roller is jammed	Check for sticks, stones, other objects jammed in belt drive area and remove.

Conveyor belt doesn't track correctly

Roller lagging may be worn	Replace roller or have it relagged

Conveyor Belt Fraying

Belt not aligned	Align and adjust tension

P*roduct leakage*

Product may be getting under the belt at the hopper, traveling up inside the belt and leaking off discharge end	Replace hopper flashing

Low conveying capacity

Gas/Electric system - drive roller is slipping	Replace V-belt
Conveyor belt slipping	Tighten and align

Section 6: REFERENCE

In this Reference section, is useful information. If the information you need is not included here, please call your dealer, or Meridian Manufacturing Inc. directly for assistance.

6.1 SPECIFICATIONS

Model	Discharge Height to Ground	Hopper to Ground	Overall Length	Hopper Length	Drive-Over Deck Width	Tube Diameter	Belt Width
DOH-1426 DOSNH-1426	3' 2"	8"	29'	9' 6"	12'	14"	22"

6.2 ORDERING PARTS

Always give the Model Number and Serial Number when ordering parts.

To get your parts promptly the following information will be required:
- The part name and number
- Your Name, Address, Town, Province/State, Country
- Complete information for shipping

Confirm all phoned in orders in writing. If Purchase Orders are required please note the number on the written order.

Unless claims for shortages or errors are made immediately upon receipt of goods, they will not be considered.

Inspect all goods received immediately upon receipt. When damaged goods are received, insist that a full description of the damage is made with the carrier against the freight bill. If this is insisted upon, full damage can be collected from the transport company.

No responsibility is assumed for delay or damage to merchandise while in transit. Dealers responsibility ceases upon delivery or pickup of shipment from or to the transportation company. Any freight damage claims must be made with the transportation company, not with the dealer.

6.3 BOLT TORQUE

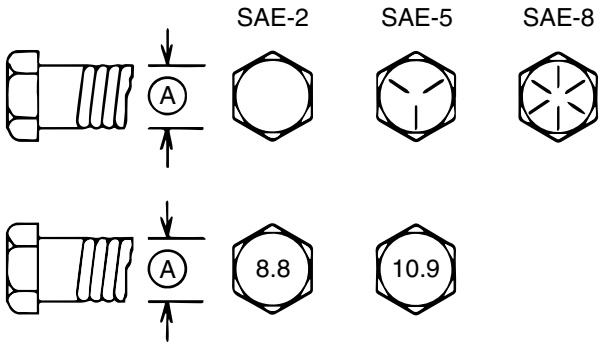
The tables shown below give correct torque values for various bolts and capscrews. Tighten all bolts to the torques specified in chart unless otherwise noted. Check tightness of bolts periodically, using bolt torque chart as a guide. Replace hardware with the same strength bolt.

ENGLISH TORQUE SPECIFICATIONS						
Bolt Diameter "A"	Bolt Torque*					
	SAE 2 (Nm)	(ft-lb)	SAE 5 (Nm)	(ft-lb)	SAE 8 (Nm)	(ft-lb)
1/4"	8	6	12	9	17	12
5/16"	13	10	25	19	36	27
3/8"	27	20	45	33	63	45
7/16"	41	30	72	53	100	75
1/2"	61	45	110	80	155	115
9/16"	95	60	155	115	220	165
5/8"	128	95	215	160	305	220
3/4"	225	165	390	290	540	400
7/8"	230	170	570	420	880	650
1"	345	225	850	630	1320	970

Table 7 - English Torque

METRIC TORQUE SPECIFICATIONS				
Bolt Diameter "A"	Bolt Torque*			
	8.8 (Nm)	(ft-lb)	10.9 (Nm)	(ft-lb)
M3	0.5	0.4	1.8	1.3
M4	3	2.2	4.5	3.3
M5	6	4	9	7
M6	10	7	15	11
M8	25	18	35	26
M10	50	37	70	52
M12	90	66	125	92
M14	140	103	200	148
M16	225	166	310	229
M20	435	321	610	450
M24	750	553	1050	774
M30	1495	1103	2100	1550
M36	2600	1917	3675	2710

Table 8 - Metric Torque



Torque figures indicated above are valid for non-greased or non-oiled threads and heads unless otherwise specified. Therefore, do not grease or oil bolts or capscrews unless otherwise specified in this manual. When using locking elements, increase torque values by 5%.

* Torque value for bolts and capscrews are identified by their head markings.

HOW TO INSTALL YOUR *SUPER-SCREW®* ?

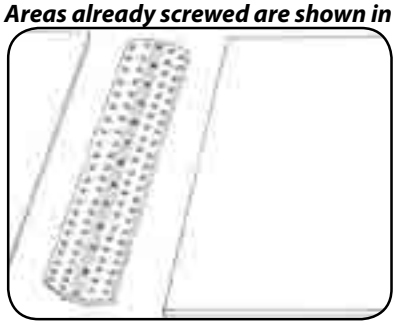
WARNING

- SKIVE OR GRIND THE BELT TO INBED THE SUPER-SCREW® SPLICE AND AVOID SOME OVERTHICKNESS
- DO NOT USE AN IMPACT WRENCH TOOL
- SLIDE UNDERNEATH THE SUPER-SCREW® A THICK WOOD BOARD
- DO NOT SCREW ON A DRUM
- TAKE APPROPRIATE SAFETY GEAR : PPE

Equipment requested

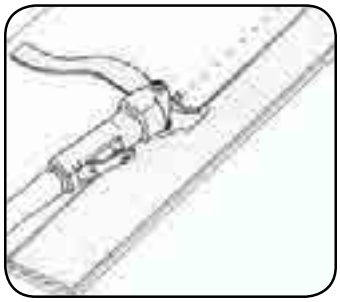
- a Super-Screw® appropriate and assembled
- a MLT PZ bit
- a ruler
- a marking pen
- a cutter
- a powerful electric drill or 18 V or 24 V battery
- the quantity of screws needed
- the MLT skiver

Areas already screwed are shown in grey



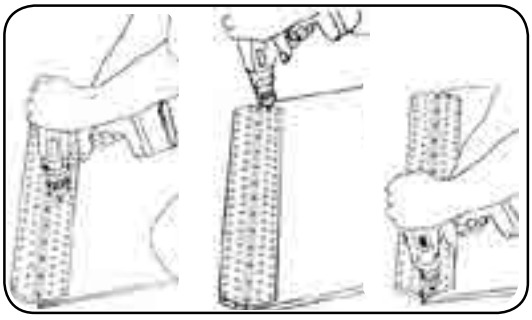
Measure the thickness of the carcass or the belt to choose the correct screw length and the right kind of Super-Screw®. For a better passage over the rollers and the scrapers, provide a bias installation.

Cut your belt with a 1/3 bias (or 10% min of the width of the belt). The other side of the belt should be cut with a bias in the opposite direction.

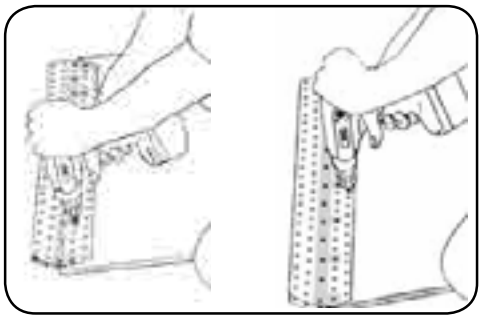


Skive down both top and bottom belt rubber covers with the MLT skiver.

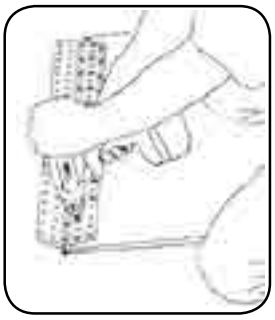
Chamfer the end of the belt top and bottom as shown.
Position Super-Screw® against the belt, ensuring that Super-Screw® is resting against the central spacers.



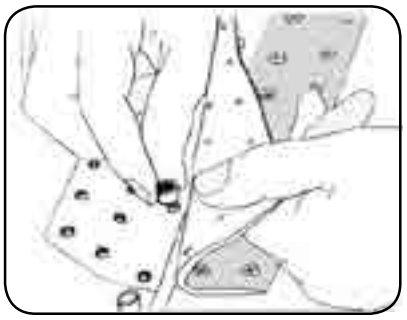
Start screwing by the center, continue by one end, then the other end without twisting Super-Screw®. Keep screwing until the screw catches the underneath thread, and avoid as this stage to compress strongly the belt. NOTE : Screw on a flat and hard thick wooden board.



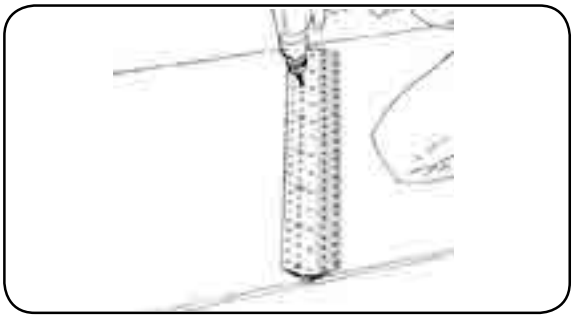
Spread the screwing process over the whole of the surface, by first crewing one hole over four along the row. Repeat the operation over the other(s) row(s).



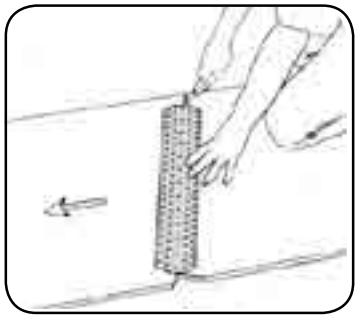
Screw one hole over two and achieve the operation.



In order to get into contact both belt ends, unscrew the center part and disassemble the thickness and alignment spacers.



Get into contact the belt end, while ensuring the belt alignment, and resume screwing again the other half of Super-Screw® as shown previously.
Exercise a general control of the screws tips to ensure that they do not protrude. In the contrary, adjust the clamping (by screwing or unscrewing).



Cut the belt end (opposed to the trailing edge) as shown.

Your Super-Screw® is installed !

The thin rubber cover over the top metallic inserts will be erased after a short while, allowing a visual control of a correct tightening and positioning, the state and conditions of performance.
This has no consequence related to the-Super Screw® resistance.

More information ?
Please check our website
www.mlt-lacing.com

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LIMITED WARRANTY STATEMENT

1. Meridian Manufacturing Inc, hereafter referred to as Meridian®, warrants each new product (the "Goods") to be free from defects in material and workmanship under normal use and service for a period of one (1) year or ninety (90) days in the case of commercial use, from the shipment date from the Meridian dealer (FCA).

2. Meridian® warrants replacement parts and components either manufactured or sold by, will be free from defects in materials or workmanship under normal use and service for thirty (30) days from the shipment date from the Meridian dealer (FCA), or the remainder of the original warranty period on the Goods, whichever is longer.

3. This warranty does not apply to:
   a. To any merchandise or components thereof, which in the sole and unfettered opinion of Meridian®, have been subject to misuse, unauthorized modifications, alteration, accident, negligence, product abuse or lack of required maintenance.
   b. If repairs have been made with parts or by persons other than those parts or persons approved by Meridian®.
   c. To parts and accessories not manufactured by Meridian® including, but not limited to, engines, batteries, tires, belts, PTO shafts or other trade accessories. Such parts shall be covered by the warranty given by the actual manufacturer, if any.
   d. To failure of parts; or failure of parts to perform due to wear under normal or excessive service conditions; or to failure due to use by the Purchaser for purposes other than originally intended at time of manufacture, including without limitation using the Goods for mixing fertilizer, etc.; or used in excess of the built specifications.
   e. To Goods used in areas exposed to corrosive or aggressive conditions including, but not limited to, salt water from either inside or outside the Goods.
   f. To failures or defects arising out of damage during shipment or during storage.
   g. To materials replaced or repaired under this warranty, except to the extent of the remainder of the applicable warranty.

4. The obligation of Meridian® under this warranty shall not arise unless Meridian® is notified and this warranty is presented together with a written statement specifying the claim or defect within thirty (30) days after the failure is first detected or made known to the Purchaser and within: (i) one (1) year, or ninety (90) days in the case of commercial use; or (ii) thirty (30) days in the case of replacement parts and components manufactured by Meridian®; from the shipment date from the Meridian dealer (FCA). Meridian® in its sole and unfettered discretion shall determine if the claim is valid and whether correction of the defect or failure shall be made by repair or replacement of the materials.

5. Title to any replaced materials Meridian® wishes to have pass to it, shall pass to Meridian®.

6. The obligation of Meridian® hereunder extends only to the original Purchaser or Buyer to whom the Goods were initially sold. This warranty shall not be subject to any assignment or transfer without the written consent of Meridian®.

7. The purchaser acknowledges that it has made its own independent decision to approve the use of the Goods and also the specific fabrication and construction procedures utilized to complete the Goods, and has satisfied itself as to the suitability of these products for its use.

8. This warranty is subject to the following limitations, provisions and conditions:
   a. Meridian® shall have no liability hereunder for any claims, including field re-work.
   b. Meridian® shall not be liable for any incidental loss or damage, however caused, including, without limitation, normal wear and tear.
   c. Meridian® makes no express or implied warranties of any nature whatsoever except for such express warranties as set out herein. The warranty provided herein is in lieu of and excludes all other warranties, guarantees or conditions pertaining to the Goods, written or oral, statutory, express or implied, (except the warranty as to title) including any warranty as to the merchantability or fitness for any particular purpose. Meridian® expressly disclaims all other representations, conditions or warranties, expressed or implied, statutory or otherwise and any representations, warranties or conditions that may arise from a course of dealing or usage of trade. The warranty provided herein shall constitute Meridian's sole obligation and liability and the Purchaser's sole remedy for breach of warranty. No other warranty has been made by any employee, agent, or representative of Meridian® and any statements contained in any other printed material of Meridian® is expressly excluded here from. Meridian® shall not be responsible for any warranty offered by the Purchaser to its customers with respect to the Goods and the Purchaser shall indemnify Meridian® with respect to same if any of those customers makes a claim against Meridian® relating to any such warranty.
   d. Subject to Meridian's obligations contained in paragraphs 1 and 2 herein, none of Meridian®, its officers, directors, servants or agents shall be liable, or responsible for any loss or damage (including strict liability and liability for loss or damage due to items which the manufacturing processes are designed to identify) whether such loss or damage is caused by negligence in any manner whatsoever (including gross negligence, error, misrepresentation, misstatement, imprudence, lack of skill or lack of judgement).

9. The sole financial obligation of Meridian® under this warranty shall be limited to the repair or replacement of the Goods as originally supplied and in no event shall they exceed the original cost of the Goods supplied.

10. Meridian® shall not have any obligation under any warranty herein until all accounts have been paid in full by the Purchaser.

11. The construction and interpretation of this Warranty shall be governed by the laws of the Province of Manitoba.

WARRANTY CLAIM PROCEDURE

1. The goods must be registered with Meridian®.

2. The purchaser must contact the dealer, from where the unit was purchased, immediately upon discovery of any defects.

3. A completed warranty claim form must be submitted by the dealer to Meridian's warranty representative for review and any subsequent course of action.
   - Warranty claims must be completed with ALL required information in order it to be accepted.
   - Send photographs of the entire piece of equipment, and of the specific area of concern.

4. Warranty repair work will only be performed by Meridian® or an approved representative of Meridian®. No warranty work completed prior to approval by Meridian® will be honoured. Failure to follow procedure may affect any or all of this warranty.

5. All warranty claims will be adjudicated at the sole discretion of Meridian® and in accordance with the terms and conditions of the limited warranty.

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