

CONVEY-ALL[®]

2250 • 2258

TRUCK LOAD CONVEYOR
with Self-Propulsion



convey-all.com/2200-truck-load-conveyors



OPERATOR'S MANUAL

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.

[illegible]

**PRODUCT REGISTRATION FORM
and INSPECTION REPORT**

CONVEY-ALL®

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: Box 760, 275 Hespler Ave, Winkler Manitoba R6W 4A8.

Buyer's Name _____	Dealer's Name _____
Address _____	Address _____
City _____	City _____
Province/State _____	Province/State _____
Postal/Zip Code _____	Postal/Zip Code _____
Country _____	Country _____
Phone Number _____	Phone Number _____
Model Number _____	Serial Number _____
Delivery Date _____	General Purpose: <input type="checkbox"/> Private <input type="checkbox"/> Commercial

UNIT INSPECTION

- ☐ All Fasteners Tight
- ☐ Engine/Hydraulic Fluid Levels Checked
- ☐ Hydraulic Hoses Good, Fittings Tight
- ☐ Machine and All Bearings Lubricated
- ☐ Conveyor Belt Aligned and Tensioned
- ☐ Conveyor Belt Moves Freely
- ☐ Conveyor Tube Raises and Lowers Smoothly
- ☐ Unit Steers and Drives Smoothly
- ☐ Tire Pressure Checked

SAFETY INSPECTION

- ☐ All Guards/Shields Installed and Secured
- ☐ All Safety Decals Clear and Legible
- ☐ Reflectors, Slow Moving Vehicle Sign are Clean
- ☐ All Lights are Clean and Working
- ☐ 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

Thank you for choosing a Convey-All® Truck Load conveyor.

Convey-All® products are built by Meridian Manufacturing Inc. The equipment we design and manufacture meet the exacting standards of the agriculture industry.

Keep this manual for future reference. Call your dealer, distributor or Meridian 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 without any preliminary notice.

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

Disclaimer:

Conveying potash, urea or other granular fertilizer in high-humidity situations requires more frequent cleaning.

Standard conveyors are not rated to move canola or other oilseed products.

OPERATOR ORIENTATION

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

SERIAL NUMBER LOCATION

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 on the drive box.

- Use the space provided for easy reference:

Conveyor Model No: _____

Conveyor Serial No: _____

Engine Model No: _____

Engine Serial No: _____

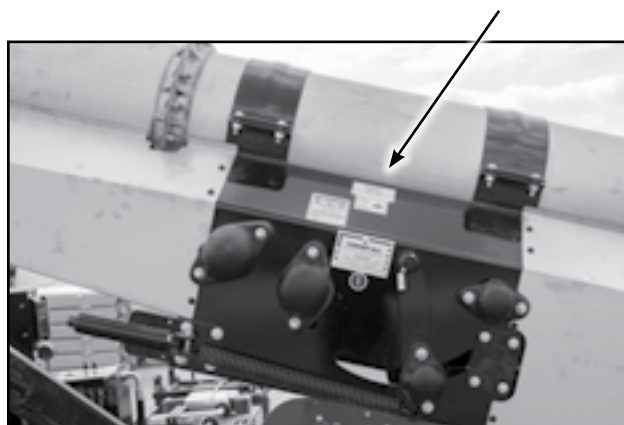


Fig 1 - Serial number location



Meridian Manufacturing Inc. continuously enhances its product offering through product improvements and new product innovations. Marketplace feedback, technological innovation, new materials and manufacturing methods, and a philosophy of continuous improvement constantly challenge the company to develop new and better ways of addressing market needs. Meridian is committed to innovation and reinvestment and as a result, the company maintains a portfolio of patents and intellectual property. For more information on our patents please see our website:

www.convey-all.com/patents

Section 2: SAFETY

3 Big Reasons why safety is important to you:

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

The Safety Alert Symbol means:

**ATTENTION!
BECOME ALERT!
YOUR SAFETY IS INVOLVED!**

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.



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.



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.



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



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



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® truck load 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.

Remember, you are the key to safety. Good safety practices not only protect you but also the people around you. Make these practices a regular part of your safety program. Be certain that everyone who will work with this equipment follows these procedures.

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

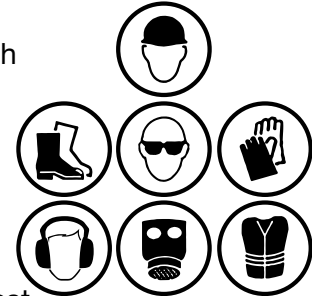


- Do not allow riders.

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

- Wear personal protective equipment (PPE). 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.
- In order to provide a better view, certain images 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.
- 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).
 - a. Remove all dirt, grease, wax from surface.
 - b. Clean the area with a non-ammonia based cleaner.
 - c. 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 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.

- Convey-All logo on sides of tube at discharge.
- Red reflectors: on discharge spout, and discharge-side of axle.
- Amber Reflectors: on sides of hopper, at less than 15 ft intervals along tube, and on hopper-side of axle.

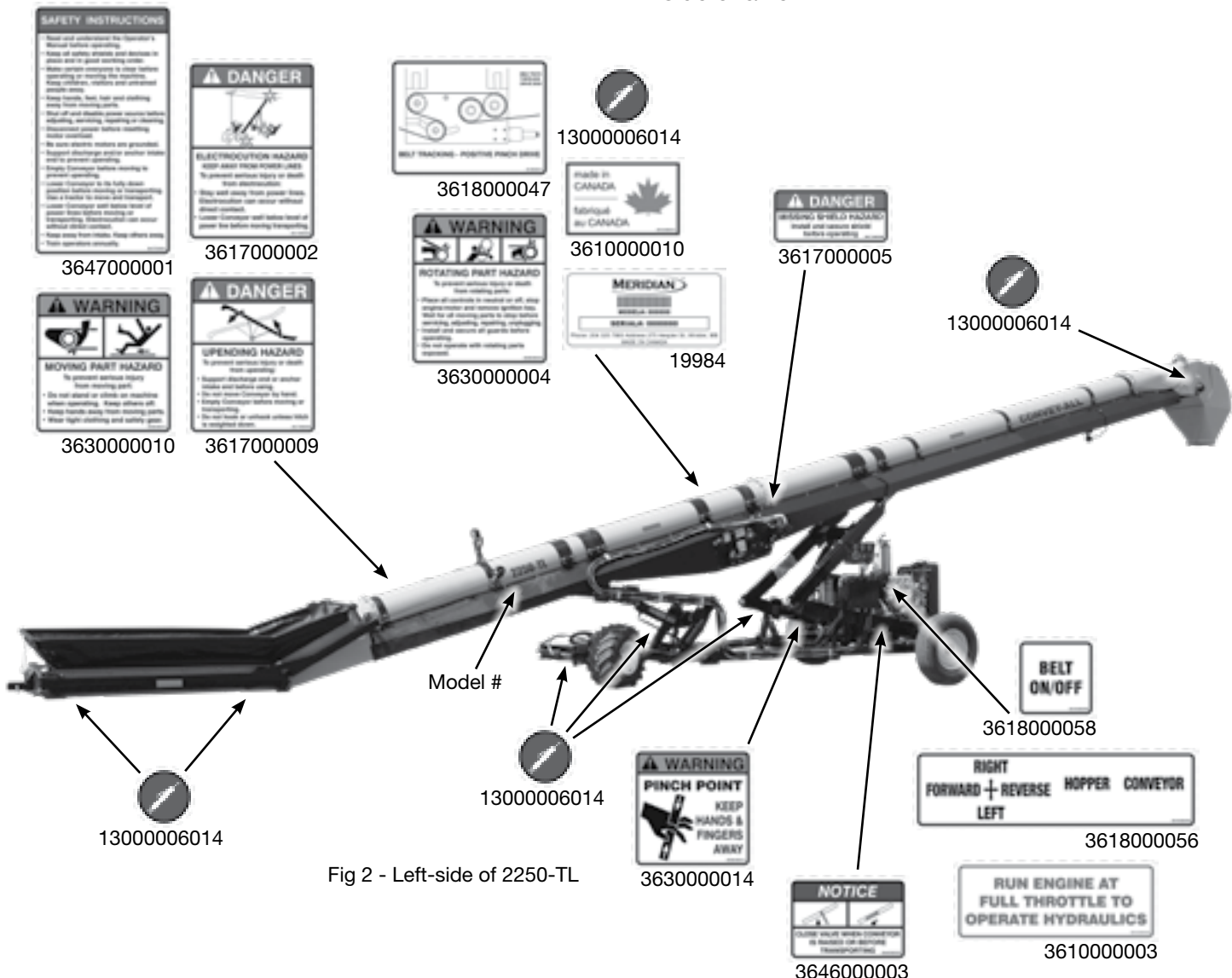


Fig 2 - Left-side of 2250-TL

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.

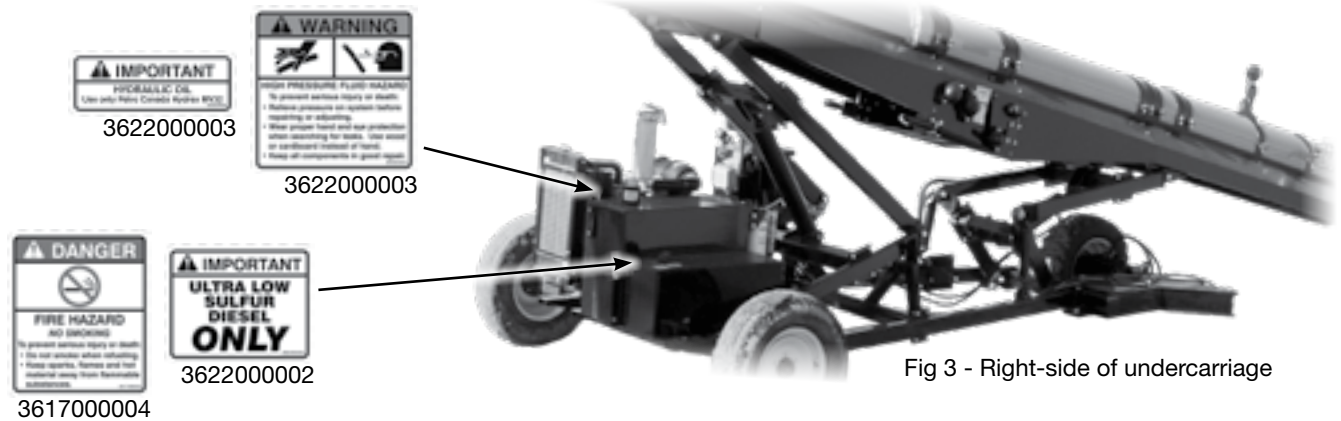


Fig 3 - Right-side of undercarriage

2.6 WORK PREPARATION

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



2.8 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.






2.9 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.



2.10 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 carburetor to stop engine.
Choke only for an emergency stop.

2.11 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. Electrocutation 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.

2.12 PLACEMENT SAFETY

- Stay away from overhead power lines when operating or moving the conveyor. Electrocutation can occur without direct contact.
- Keep conveyor as low as possible.
- Chock conveyor wheels before operating.
- Position conveyor providing enough space for trucks to load or unload.
- Operate conveyor on level ground, free of debris.

2.13 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.

2.14 WORKPLACE HAZARD AREA

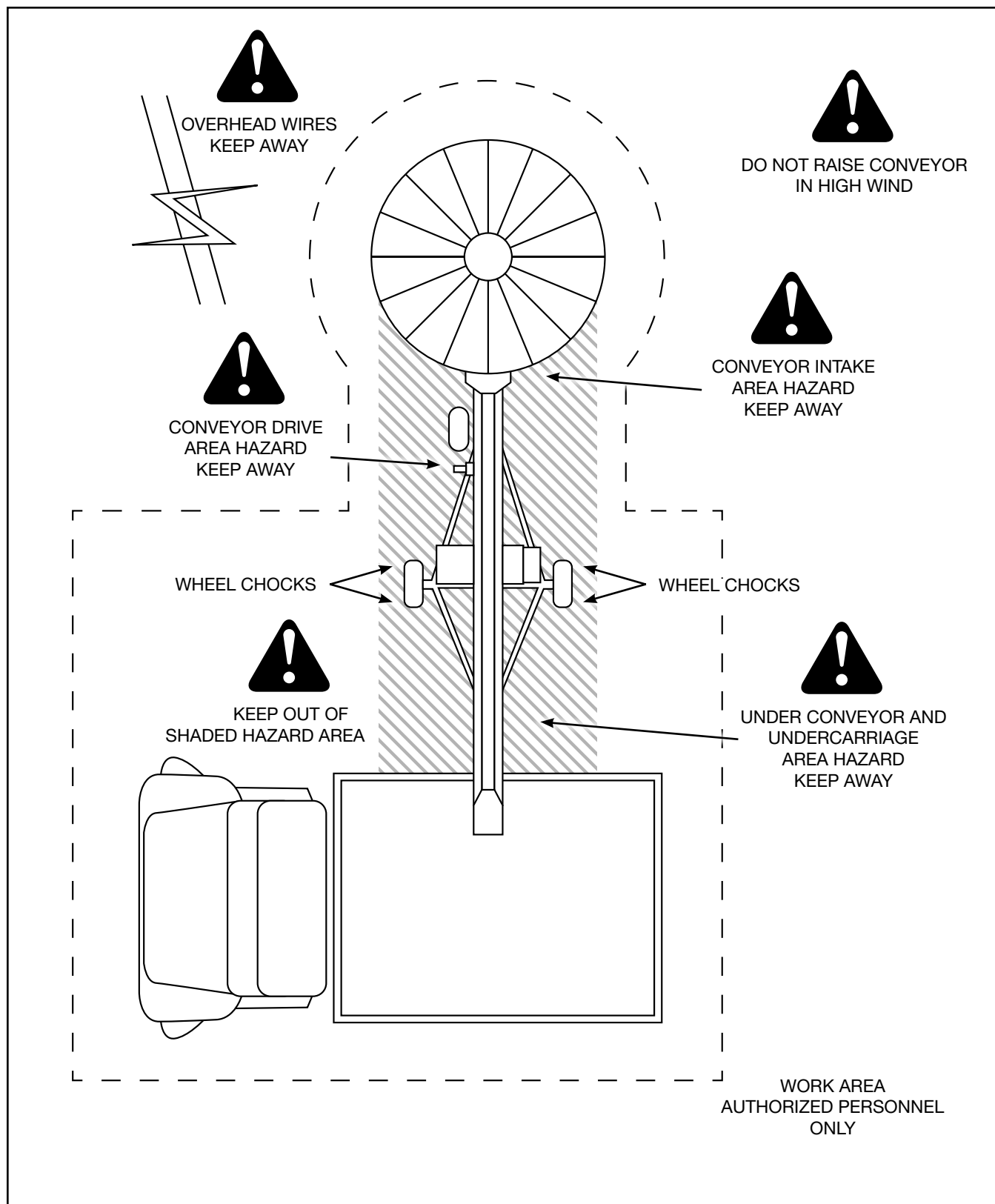


Fig 4 - Workplace Hazard Area

2.15 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.



2.16 TRANSPORT SAFETY

- The conveyor belt must be empty before raising or lowering the tube.
- Always transport conveyor in collapsed position.
- Ensure all lights, reflectors, other lighting requirements are installed and in good condition.
- Never allow riders on the conveyor.
- Comply with all local laws governing safety and transporting equipment on public roads.
- Do not exceed a safe travel speed. Slow down for rough terrain and when cornering.
- Stay away from overhead power lines. Electrocutation can occur without direct contact.
- 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 driving near or crossing roadways.

2.17 STORAGE SAFETY

- Store the conveyor on a firm, level surface.
- Store in an area away from human activity.
- If required, make sure the unit is solidly blocked up.
- Remove the battery and store in dry location. Do not sit battery 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 machinery.

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® truck load conveyor has many features incorporated into it as a result of suggestions made by customers like you.

Hazard controls and accident prevention are dependent upon the personnel operating and maintaining the equipment. Their awareness, concern, prudence and proper training are crucial.

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. By following recommended procedure, a safe working environment is provided for the operator, co-workers and bystanders in the area around the work site.

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

3.1 MACHINE COMPONENTS

A diesel engine supplies power to run the hydraulics, making this conveyor a self-contained, self-propelled unit.

A hydraulic cylinder is used to lower the steering wheels when driving the unit. Another cylinder raises and lowers the tube.

Components may vary, and their positions may change depending on the options contained on the conveyor.

The main components are listed below:

- a. Conveyor Tube
- b. Hopper
- c. Hopper Winch
- d. Discharge Spout with Electric Actuator
- e. Diesel Engine
- f. Engine, Electrical and Hydraulic Controls
- g. Drive Box
- h. Hydraulic Motor
- i. Hydraulic Reservoir and Fuel Tank
- j. Front Axle and Wheels
- k. Drive/Steering Wheel
- l. Working Lights
- m. Jack Mount
- n. Hitch and Jack Storage Plate
- o. Document Holder

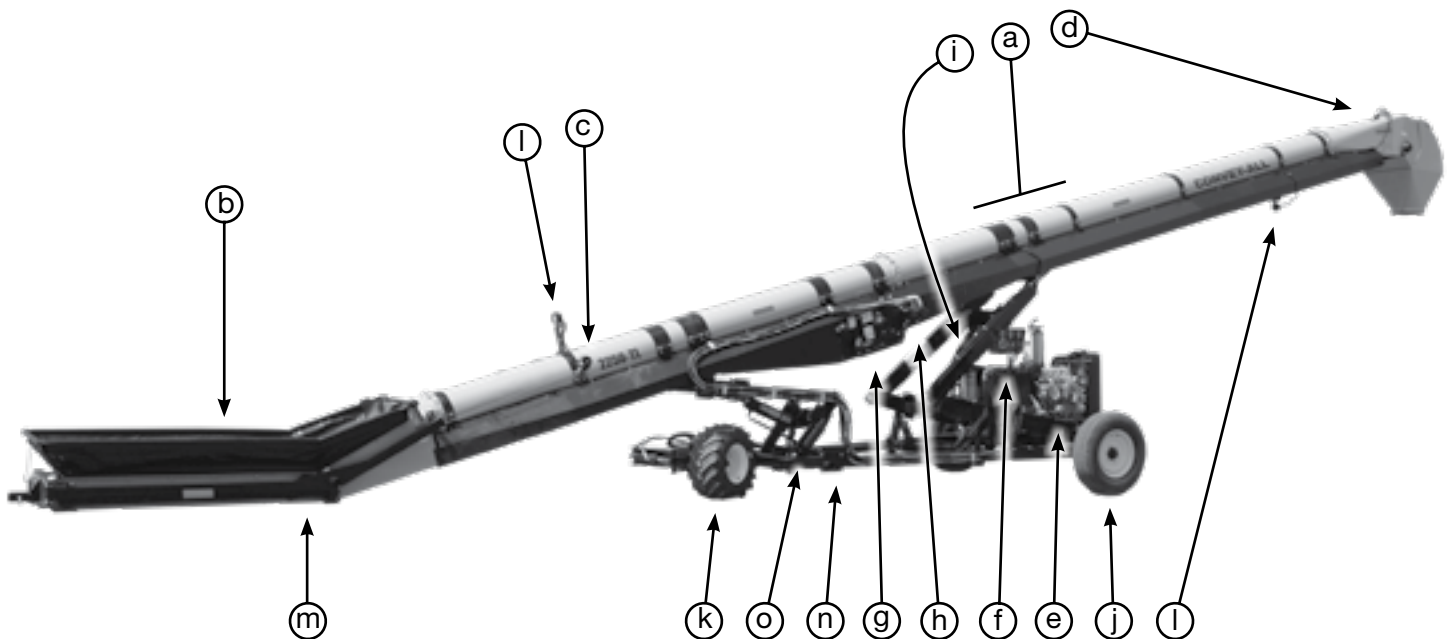


Fig 5 - 2250-TL Truck load conveyor

3.2 COMPONENTS AND CONTROLS

Before starting to work, all operators must familiarize themselves with the location and function of the components and controls.

Options and their locations may change without notice.

Refer to the engine manufacturer's manual for more detailed information.

- Engine controls may vary depending on model.

Diesel Engine and Control Box:

- Ignition Switch:**
Turn clockwise to start. It will spring back to the Run position.
- Throttle:**
This switch controls the engine RPM.

IMPORTANT:

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

Power Shut-Off Switch:

The red switch, which is located behind the engine, controls the electricity. Turn on before starting the engine. Turn off when the conveyor will not be used for extended periods.

Fuel Tank:

The 90 Litre (24 US Gal.) tank sits on the axle. The fuel cap has a level gauge in it.

Hydraulic Oil Reservoir:

The 190 Litre (50 US Gal.) reservoir sits beside the engine. A combination thermometer and level gauge is mounted on the front.



Fig 6 - Diesel engine

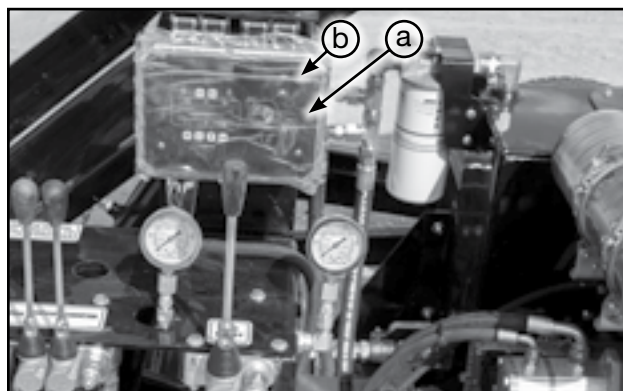


Fig 7 - Engine control box

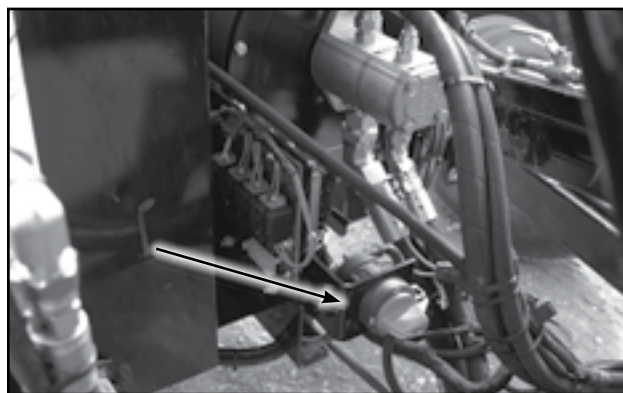


Fig 8 - Power shut-off switch

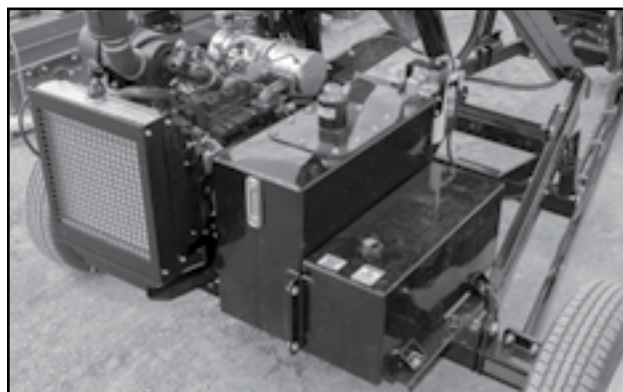


Fig 9 - Hydraulic oil reservoir and fuel tank

Hydraulic Controls:

The hydraulic valve bank is beside the engine.

- a. Hopper Lift:
This lever controls the height of the steering wheel, which in turn moves the hopper.
 - Lower the wheels, to raise the hopper when driving the unit.
 - Raise the wheels, lowering the hopper into position for unloading.
- b. Conveyor Lift:
This lever raises and lowers the conveyor tube.

Note:

A ball valve is located on the lift arm.
 Open, to raise or lower conveyor.
 Close, to lock in position. See Figure 12

- c. Conveyor Belt Control:
The hydraulic motor controlling the conveyor belt is turned on and off with this lever.
- d. Mover Kit Lever:
This 4 position, spring-loaded lever controls the movement of the conveyor. It drives the wheels forward and reverse, and also swivels the steering wheels for turning left or right.

Hydraulic Pressure Gauges:

There are two gauges on the hydraulic valve bank. The one on the left displays the hydraulic pressure in the moving and lifting circuit. The one on the right is for the conveyor belt circuit.

Hydraulic Ball Valve to Conveyor Lift Cylinder:

This valve allows oil into or out of the hydraulic cylinder that raises/lowers the tube.

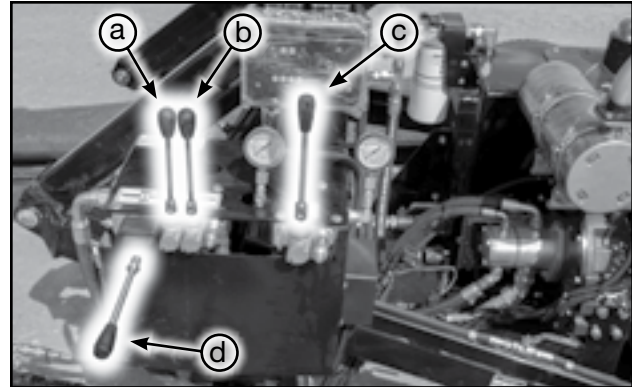


Fig 10 - Valve bank

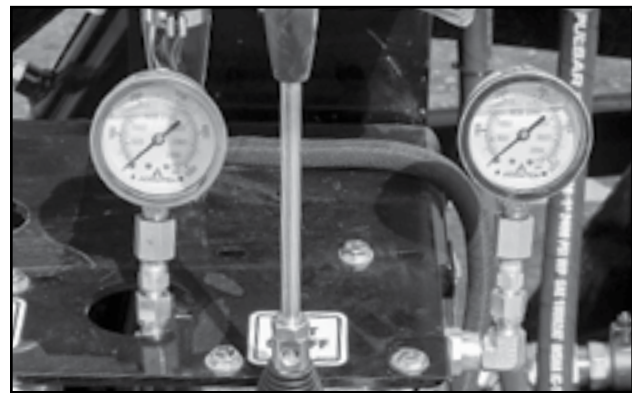


Fig 11 - Hydraulic pressure gauges

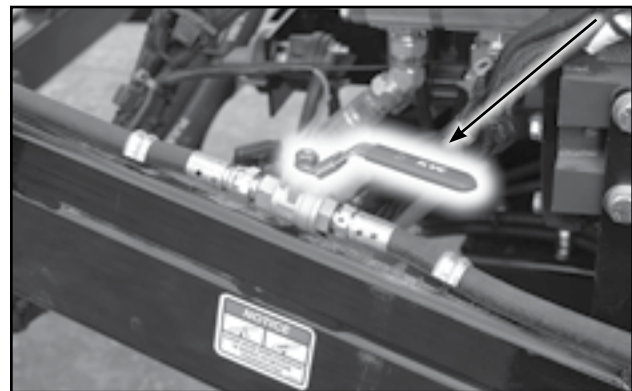


Fig 12 - Hydraulic ball valve to the lift cylinder

IMPORTANT:

Ball valve must be fully opened prior to raising/lowering the conveyor.

Always close valve fully when conveyor is to remain in fixed position. This will prevent ram from creeping downward during operation.

Drive Wheel:

The single wheel, hydraulic drive has 180 degree steering. This makes manoeuvring into an unloading position easy.

One hydraulic cylinder is used to turn the axle. Another is for raising and lowering the wheel.

An hydraulic manifold locks the drive wheel in position, when raised or lowered.

NOTICE**UPENDING HAZARD**

Do not extend drive wheel cylinder fully. Raising hopper too high may cause upend.

Hydraulic Manifold to Drive Lift Cylinder:

This manifold controls the flow of oil to and from the cylinder. It prevents the cylinder from retracting, when the valve is not in use.

Drive Box and the Hydraulic Motor:

The conveyor belt winds through the Positive Pinch Drive Box, and is driven by hydraulics.

Angle of Operation Indicator:

On the drive box, is a decal to assist in calculation of operating angle.

Hold a weighted string against the arrow (above the Convey-All® logo). Reference the graph and read where the string lies.



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Fig 13 - Drive Wheel

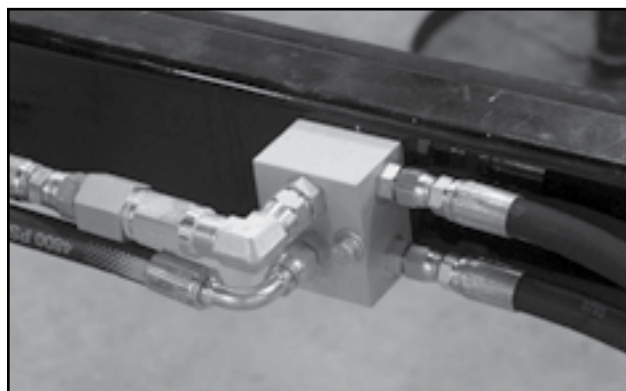


Fig 14 - Hydraulic manifold to drive wheel lift cylinder

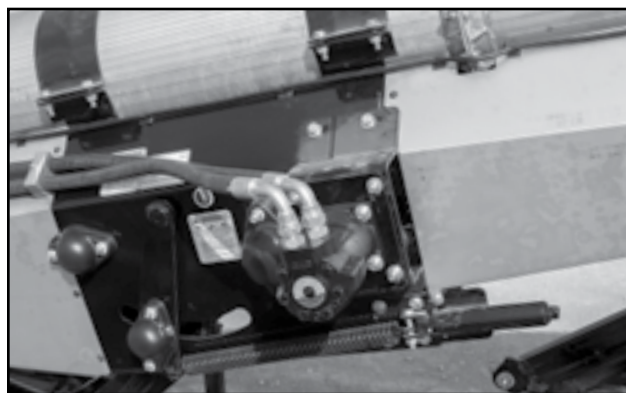


Fig 15 - Hydraulic Motor on Drive Box

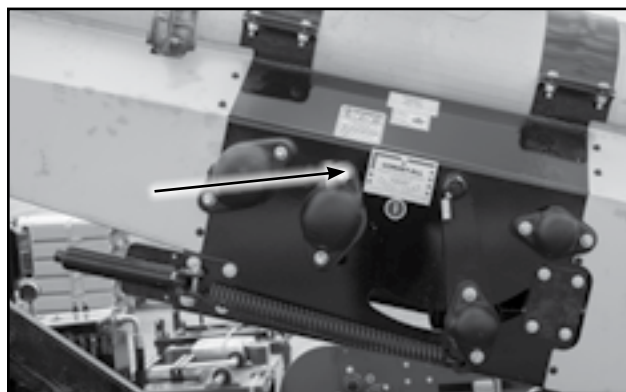


Fig 16 - Decals on Drive Box

Chevron Belt with Alligator® Lacing:

Convey-All® conveyors use a 2 ply, 220 weight, chevron belt with Alligator® Lacing.

⚠ WARNING**MOVING BELT HAZARD**

Never climb into hopper onto the belt.
The belt may inadvertently be turned on.

Hopper:

The hopper is designed with spring loaded canvas frame. This allows the truck box to push the frame down.

The hopper has rubber flashing to seal the junction between the belt and the sides of the hopper.

A stainless steel hopper is available.



Fig 17 - Hopper



Fig 18 - Hopper winch

⚠ WARNING**UNEXPECTED MOVEMENT HAZARD**

Do not release hopper winch handle when ratchet lever is unlocked with load on winch. The handle could spin violently causing serious injury.

Hopper Winch:

The manual winch is located on the side of the tube just above the hopper. It is used to lower the canvas frame.

Rail Car Hopper (Optional):

This hopper has a very low profile to allow for positioning under a rail car hopper.

A winch is used to raise and lower hopper sides.

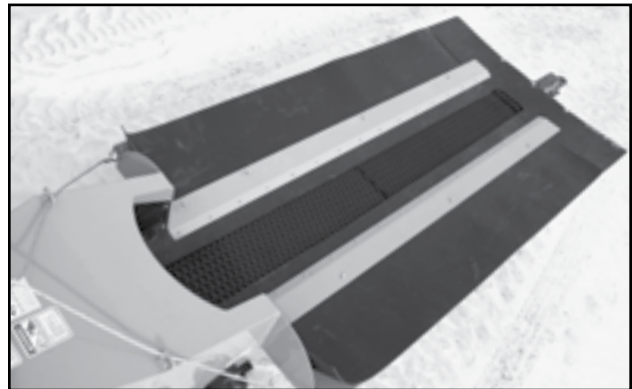


Fig 19 - Railcar hopper



Fig 20 - Discharge spout

Discharge Spout:

The discharge spout is designed with six settings to position the hood at the appropriate configuration for the application.

Move the spout into one of the hole settings if the product needs to be directed further back rather than straight down.

Remove the position bracket and flip the hood back to throw the product as far as possible. This configuration works well when making piles or inside buildings.

A stainless steel discharge is available.

Electric Actuator on Discharge Spout:

The discharge spout comes with a 12 volt DC electric actuator. This repositions the spout, tilting it for precise control over product output. It is controlled by a switch on the junction box next to the hydraulic valves.

Work Lights:

There are two work lights. One is positioned to illuminate the hopper, and the other is below the discharge end of the machine. The 12 volt DC working lights make operating the conveyor at any time safe and convenient.

Electric Switches:

On the side of the valve bank, is a control box with two switches.

- Left switch works the lights.
- Right, toggle switch angles the discharge spout.

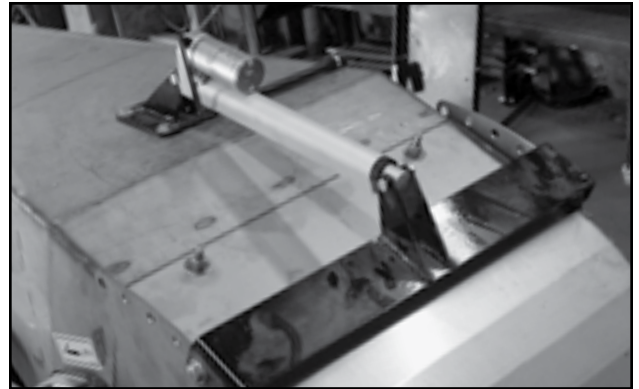


Fig 21 - Electric actuator



Fig 22 - Hopper working light



Fig 23 - Discharge working light



Fig 24 - Electric switches

Hitch and Jack Storage Plate:

This plate is mounted to the conveyor's undercarriage. The hitch and jack can be placed for storage, when not in use.

Transport Light Package (Optional):

On certain models, a 12 volt DC transport light package is available. The wiring harness would plug into a truck.



Fig 25 - Storage plate

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 hopper flashing. 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, and fasteners.
4. Check fuel, engine oil and hydraulic oil levels.
5. During the conveyors first few minutes of operation, check belt tension and alignment to ensure the factory preset does not vary under loaded conditions.
6. Check the flashing seal on the hopper. 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 the condition of all hydraulic lines, hoses and connections. Repair or replace any damaged system components.
8. Check that all guards are installed and function 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 belt is properly tensioned and aligned. Ensure it is not frayed or damaged. Refer to Section 4.3.1 and 4.3.2
6. Be sure conveyor wheels are chocked.
7. Check that discharge and intake hopper areas are free of obstructions.

NOTICE

UPENDING HAZARD

Anchor or support conveyor during operation. When lower half empties of material, the weight balance transfers to the discharge end of the machine, which can cause upending.

3.5 ATTACHING TO TOW VEHICLE

⚠ DANGER

ELECTROCUTION HAZARD

Ensure enough clearance from overhead obstructions, power lines, other equipment.

1. Clear the working area of bystanders, especially small children.
2. If the conveyor is above a storage facility:
 - Raise the conveyor tube so the discharge spout clears the structure.
 - Use the mover kit, to drive the conveyor away.
 - Lower the tube to it's collapsed position.
3. Ensure that there is sufficient room and clearance to back up to the conveyor.

NOTICE

UPENDING HAZARD

The machine is closely balanced. Do not lift unless there is downward weight on the hopper end to prevent upending.

4. The hitch and jack are removable.
 - Install the jack.
5. Raise the hopper-end of conveyor high enough to install the hitch.
 - Secure hitch with the anchor pin. Place the retainer before using hitch.
6. Align the tow vehicle's drawbar with the hitch of the conveyor while backing up.
7. Set the park brake before dismounting.
8. Use the jack, to raise the hopper and hitch to the drawbar height.



Fig 26 - Jack



Fig 27 - Hitch



Fig 28 - Ball hitch (optional)

9. Install the pin with its retainer clip, to connect the tow vehicle.
10. Secure the safety chain.

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. Transport the conveyor to the working area. Refer to Section 3.9
3. Attach the jack. Use it to raise and support the hopper.
4. Detach the conveyor from the tow vehicle.

CAUTION

SAFETY HAZARD

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

5. Start the conveyor's engine.
6. Lower the drive wheel.
7. Retract and store, the jack.

DANGER

ELECTROCUTION HAZARD

Ensure enough clearance from overhead obstructions, power lines or other equipment.

8. Drive the conveyor to the working area while it is in its lowered configuration.

NOTICE

HIGH WIND HAZARD

Do not operate or leave conveyor fully raised, in high winds. It may blow over, damaging structures and equipment.

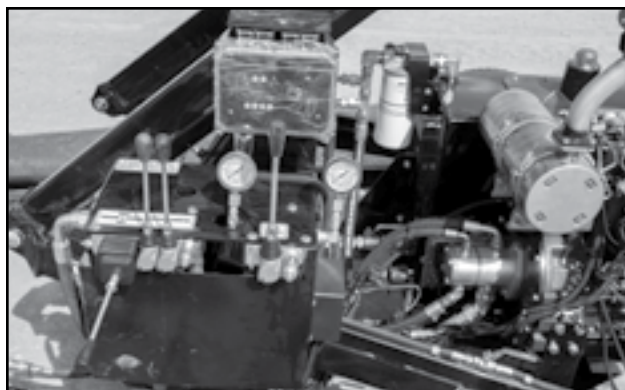


Fig 29 - Start engine



Fig 30 - Drive conveyor



Fig 31 - Hitch and jack storage



Fig 32 - Working height

9. Use the hydraulics to raise the conveyor tube to working height.
10. Advance until the conveyor is in position:
 - the discharge spout is above the storage bin.
 - and/or -
 - the hopper is in position for unloading.

IMPORTANT:

To prevent damage to the conveyor tube and belt, it must not rest on any structure.

NOTICE

Upending Hazard
Always check the weight of the hopper end to prevent upending.

11. Stake or weigh down the hopper end to prevent upending when the machine is emptying.
12. Close hydraulic ball valve, to lock the conveyor tube in position.
13. Chock the wheels to prevent movement.



Fig 33 - Hopper



Fig 34 - Hydraulic ball valve to tube lift cylinder



Fig 35 - Chocked wheels

3.7 OPERATING ON SITE

When operating conveyor, follow this procedure:

1. Clear the area of bystanders, especially small children, before starting.
2. Review the Pre-Operation Checklist before starting. Refer to Section 3.4
3. Review the Workplace Hazards illustration and use extra care when inside the hazard area.

Should anyone enter this area, stop the machine immediately.

4. Check that all guards are in place and working as intended.
5. Back the truck/tender into position for loading or unloading.

NOTICE

HIGH WIND HAZARD

Do not operate or leave conveyor fully raised, in high winds. Avoid damage to structures and equipment, by always lowering conveyor.

3.7.1 Starting Conveyor:

1. Turn throttle to its idle position.
2. Close the choke if the engine is cold or if the unit has not been run for a while.
3. Turn the ignition key to start the engine.

Release the key when the engine starts.

4. Run for 2-3 minutes to allow the engine to warm.
5. Increase engine speed to full throttle.
6. Turn on the conveyor belt using the hydraulic valve lever.
7. Start the flow of product and unload into hopper.

3.7.2 Stopping Conveyor:

1. Stop unloading. Wait for conveyor belt to empty.
2. Stop the conveyor belt.
3. Move the throttle to idle position.
4. Turn off engine and remove ignition key.

3.7.3 Emergency Stopping:

Although it is recommended that the tube be emptied before stopping, in an emergency situation, stop or shut-down the engine immediately.

See to the emergency.

Correct before resuming work.

3.7.4 Restarting after Emergency Stop:

When the conveyor is shut down inadvertently or in an emergency, the conveyor belt will still be covered with product.

Remove as much product from the hopper as possible, before restarting the engine.

Since start-up torque loads are much higher than normal when belt is full, restart at a low engine speed. The engine speed can be increased to full throttle, when the belt is empty.

Now, product can again be unloaded into the conveyor hopper.

3.7.5 Unplugging:

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

1. Stop the conveyor belt.
2. Throttle down. Then, top the engine.
3. Lock-out, tag-out the controls.
4. Remove product from discharge and hopper area.
5. Reposition unit if discharge area plugs due to lack of clearance.
6. Restart using the same procedure as if after an emergency stop. Refer to Section 3.7.4



Fig 36 - Working conveyor

3.8 OPERATING HINTS

- Keep the hopper full for maximum capacity. Most efficient results will be obtained when flow of incoming material is directed to the front (closer to the tube) of the hopper.
- Always listen for any unusual sounds or noises. If any are heard, stop the machine and determine the source. Correct the problem before resuming work.
- Do not run the machine for long periods of time with no product on the belting. This will increase the wear. Try to run only when moving product.
- Do not support discharge end directly on the truck or trailer.
- Stake the hopper or weigh it down to prevent upending.
- The hopper is designed with flashing to seal the junction between the belt and the sides of the hopper. It must be kept in good condition to prevent the product from “leaking” out of the hopper. Replace flashing if “leakage” occurs.
- **Belt Speed:**
The best results are obtained when the drive is set to provide a belt speed of 600 ft./min.

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

Contact your dealer or the factory for the appropriate drive components to give the recommended belt speed.
- **Belt Length Indicator:**
The arm at the end of the spring should sit perpendicular to the drive box.
 - Arm angled towards the tension bolt - Belt is too long.
 - Arm touches the far edge (away from the tension bolt) - Belt is too short.

- **Belt Tension:**
There may be a rapid decrease in belt tension during the first few hours of operation until the belt has worn in.

The correct operating tension is the lowest tension at which the belt will not slip under peak load conditions.

- **Operating Angle:**
The hydraulic lift can set the tube angle at any position between 12° and 27° when operating. Because the belt does not have roll-back barriers, the product will roll-back if the angle is too steep. Do not position at more than 27°.

Note:

The lower the angle,
the greater the capacity.



Fig 37 - Full hopper



Fig 38 - Tension indicator

3.9 TRANSPORTATION

Convey-All® truck load conveyors are designed to be easily and conveniently moved from place to place.

When transporting the conveyor, follow this procedure:

1. Refer to Section 3.5: Attaching to Tow Vehicle.
2. Ensure the conveyor is ready for transport:
 - It is in its fully collapsed position.
 - Drive wheel is raised off the ground.
 - Hydraulic lines are closed.
 - Hitch is attached using anchor pin, retainer and safety chain.
3. Be sure all bystanders are clear of the machine.
4. Raise the jack. Remove and store it.
5. If equipped with transport lights, connect the wiring harness across the hitch.
 - Secure with clips, zip ties or tape.
 - Provide slack for turning.
6. Remove chocks from around conveyor wheels.
7. Ensure the SMV (Slow Moving Vehicle) 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.
8. Do not allow riders on the conveyor.
9. Slowly pull away from the working area.
 - Be sure everything is connected and nothing is hanging.



Fig 39 - Safety chains



Fig 40 - Hitch and jack storage plate

10. Keep to the right and yield the right-of-way to allow faster traffic to pass. Drive on the road shoulder, if permitted by law.
11. Never travel across slopes of more than 20°. It is better to go straight up and down.
12. It is not recommended that the machine be transported faster than 80km/h (50mph).
13. During periods of limited visibility, use pilot vehicles or add extra lights to the machine.
14. Always use hazard flashers on the tow vehicle when transporting unless prohibited by law.

3.10 STORAGE

After the season's use, or when the conveyor will not be used for an extended period of time, it should be inspected and prepared for storage.

Repair or replace any worn or damaged components to prevent unnecessary down-time next season.

For a long, trouble-free life, this procedure should be followed when preparing the machine for storage:

1. Remove all left over product or residue from the hopper and inside tube.
2. Inspect all moving or rotating parts and remove anything which has become entangled.
3. Wash the entire machine thoroughly using a water hose or pressure washer to remove all dirt, mud, debris or residue.
 - Wash on top and under the belt.
 - Clean inside the tube.
4. Inspect all hydraulic hoses, fittings, lines, couplers and valves.
 - Tighten any loose fittings.
 - Replace any hose that is badly cut, nicked or abraded or is separating from the crimped end of the fitting.
5. Lubricate all grease fittings.
Refer to Section 4.2
 - Ensure all grease cavities have been filled with grease to remove any water residue from having been washing.
6. Check the condition of the conveyor belt. Replace if necessary.
7. Turn off the power shut-off switch.
8. Remove the battery.
 - Be sure it is fully charged.
 - Store it inside.
 - Do not sit the battery on a cold concrete floor.
9. Touch up all paint nicks and scratches to prevent rusting.
10. Select a storage area that is dry, level and free of debris.

If the machine cannot be placed inside, cover the engine with a waterproof tarpaulin and tie securely in place.
11. Remove ignition key.
 - Store in a secure location.
12. 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 41 - Collapsed position

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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.

4.1 FLUIDS AND LUBRICANTS

Fuel and Engine Oil:

Refer to the engine's operator manual for specific information.

- Fuel tank capacity is 90 Litre (24 US Gal.)

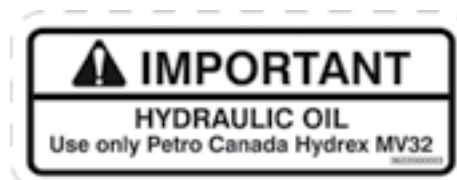
Grease:

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

Hydraulic Oil:

Use an ISO grade 36 hydraulic oil for all operating conditions (Hydrex MV36 or comparable).

- Oil reservoir holds 190 Litre (50 US Gal.)



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Fig 42 - Hydraulic oil decal

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.

4.1.1 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!

IMPORTANT:

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

Bearing greasing frequency should be determined by usage and conditions.

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.



Fig 43 - Lubricate decal



Fig 44 - Diesel engine

4.2 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.

4.2.1 Every 10 Hours or Daily:

1. Check fuel level.
 - Add as required.
2. Check oil level in hydraulic reservoir.
 - Add as required.
3. Check radiator fluid level.
4. Clean air filter.
5. Inspect conveyor belt lacing for wear.
6. Check the conveyor belt tension daily while breaking-in the conveyor.
 - Refer to Section 4.3.1
7. Check the conveyor belt tracking frequently during the first 10 hours of operation until it seats itself. Refer to Section 4.3.2
8. Inspect all rollers and bearings.
 - Check for play and wear.
 - Replace if necessary.



Fig 45 - Hydraulic oil reservoir and fuel tank



Fig 46 - Radiator

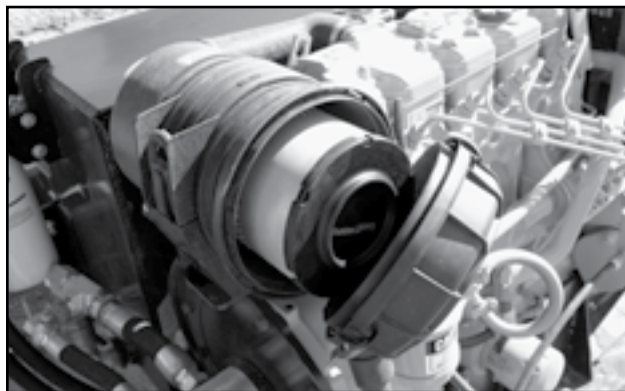


Fig 47 - Air filter with cover removed

4.2.2 Every 50 Hours or Weekly:**9. 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.

10. Check the conveyor belt tracking.

- How the belt is aligned to the rollers must be checked at the hopper, transition, at the drive box and the 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

11. Check the condition of the rubber hopper flashing. Be sure it still seals the hopper to prevent leaking.

If any product comes out of the hopper around the flashing, loosen flashing mounting screws and adjust the stainless steel hold-down bar.

- Lower the bar using its slotted bolt holes until it presses the flashing against the belt.
- Retighten anchor screws and try running the conveyor again. Repeat until no grain is lost.

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

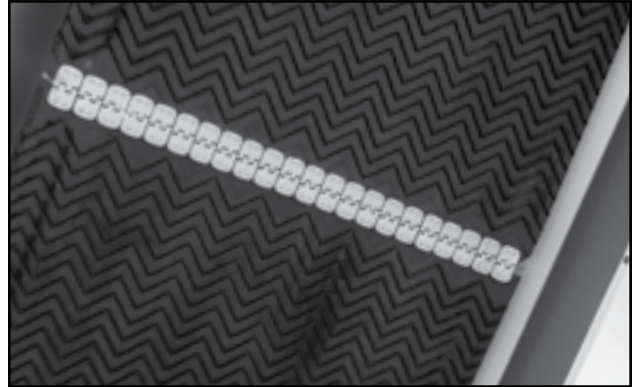
12. Inspect the hydraulic drive for wear.

Fig 48 - Belt lacing

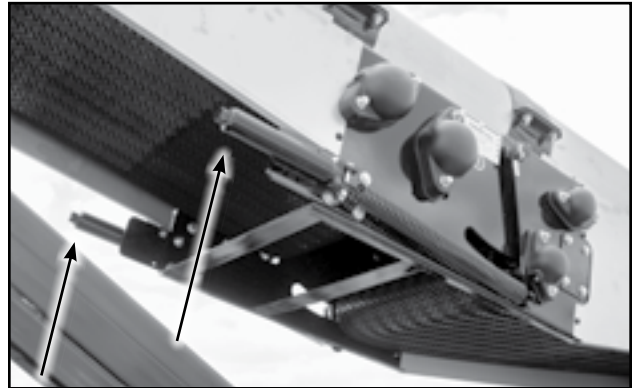


Fig 49 - Positive pinch drive tension bolts

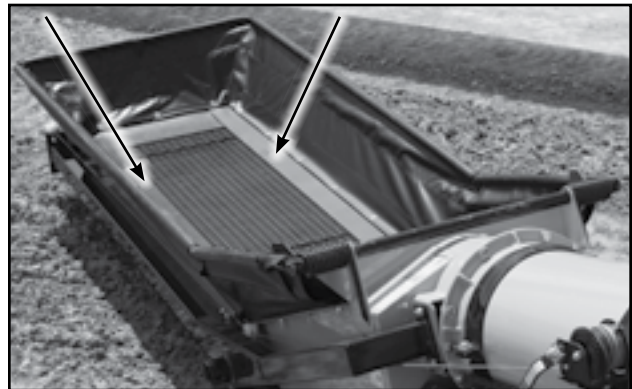


Fig 50 - Hopper flashing



Fig 51 - Hydraulic drive

4.2.3 Every 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 hopper roller bearings.

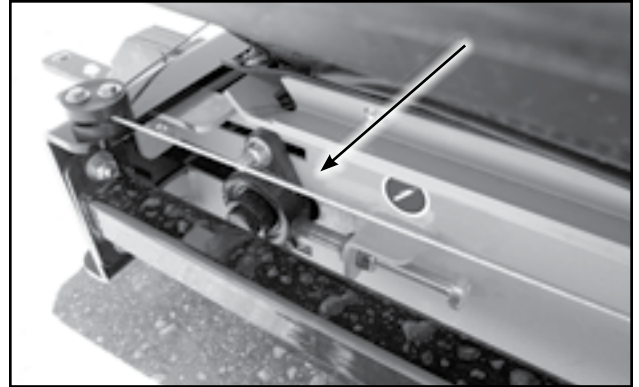


Fig 52 - Hopper roller bearings

14. Grease transition roller bearings

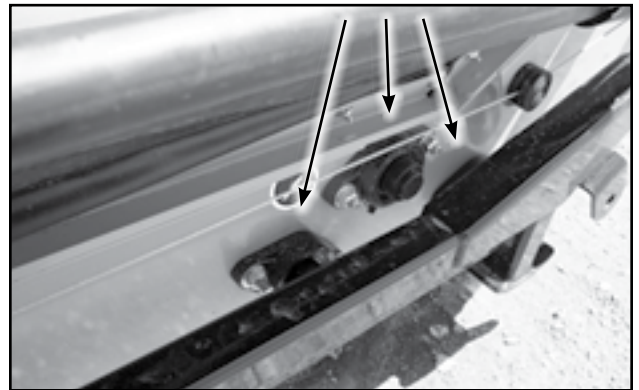


Fig 53 - Transition roller bearings

15. Grease drive box roller bearings.



Fig 54 - Drive box

16. Grease discharge roller bearings.

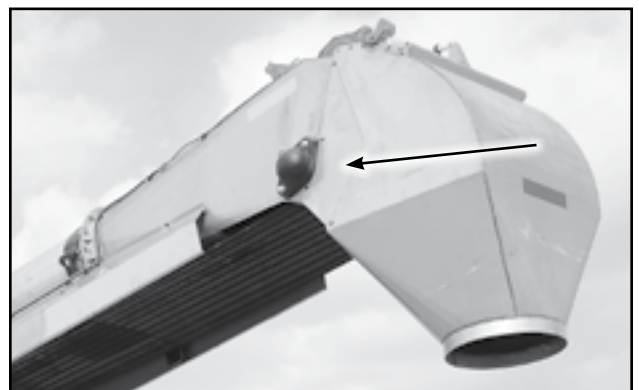


Fig 55 - Discharge roller bearings

4.2.4 Every 200 hours or Annually:

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



Fig 56 - Engine

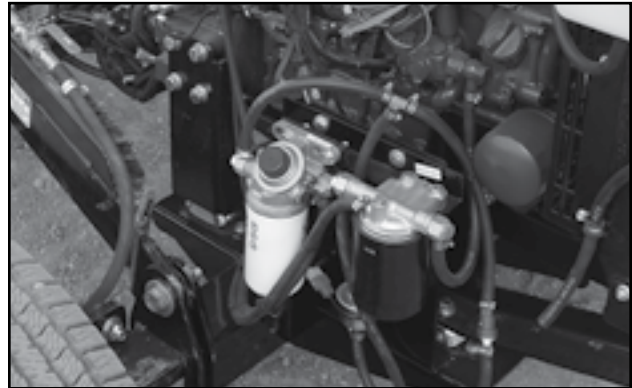


Fig 57 - Fuel filter

18. Take a hydraulic oil sample and send it to a lab for particle count analysis.
- Change oil if necessary.

19. Change the hydraulic oil filter.

20. Check that the battery retains its maximum charge.



Fig 58 - Hydraulic oil filter

21. Grease drive wheel axle bushings.

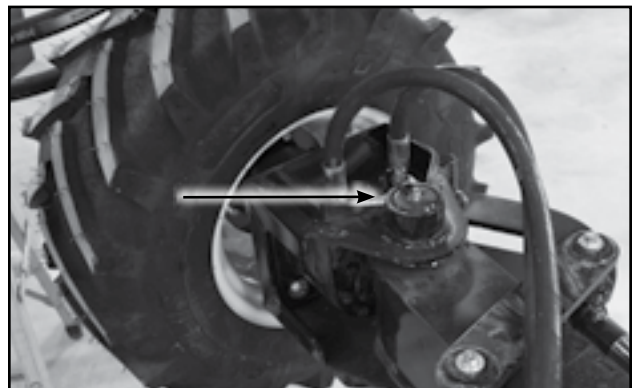


Fig 59 - Axle bushing

22. Grease steering cylinder.

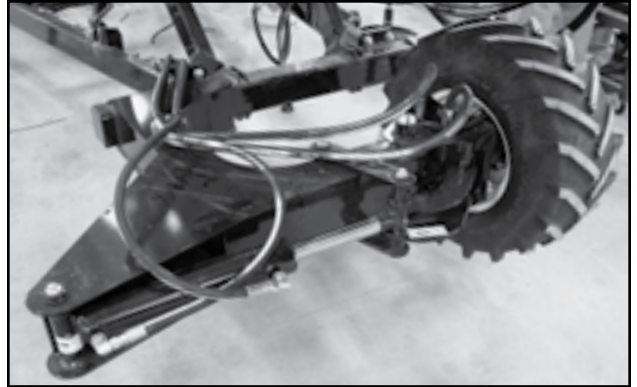


Fig 60 - Steering cylinder

23. Grease drive wheel lift cylinder.



Fig 61 - Drive wheel lift cylinder

24. Grease conveyor tube lift cylinder.



Fig 62 - Conveyor tube lift cylinder

25. Repack wheel bearings.

26. 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 hopper.
 - Leave the belt running while washing inside the tube and around the belt.



Fig 63 - Clean conveyor

4.3 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.

To check belt position, idle the engine, then rotate the belt slowly.

4.3.1 Conveyor Belt Tension:

The tension of the belt should be checked weekly, or more often if required, to be sure that it does not slip. To maintain the belt, follow this procedure:

This conveyor has a Positive Pinch Drive.

When loading on the belt gets heavier, the pinch roller tightens against the drive roller in proportion, providing more torque.

Tighten the tension bolts completely.

When the conveyor belt is tensioned correctly, the arm at the end of the spring should sit perpendicular to the drive box. It can also be angled forward, away from the tension bolt by as much as 2 inches. This indicates that the belt is a good length.

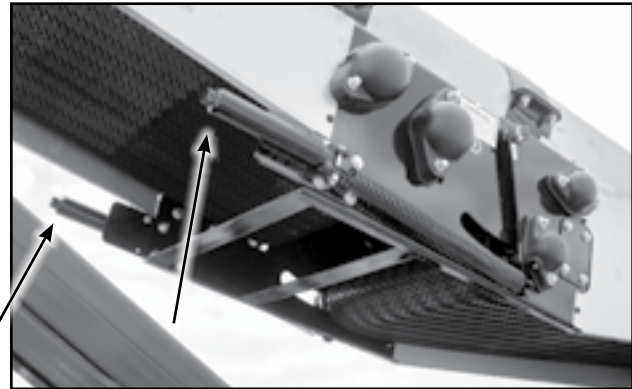


Fig 64 - Tension bolt

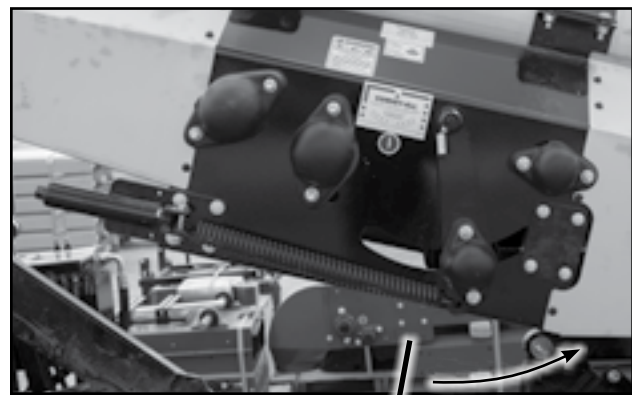


Fig 65 - Tension indicator

The arm should never be angled towards the tension bolt. This indicates the belt is too long. Measure the angle. If the belt angles 2 inches away from vertical, cut and re-lace the belt 4 inches shorter.

If the arm touches the far edge (away from the tension bolt), the belt is too short. Remove and replace with longer belt.

4.3.2 Conveyor Belt Tracking:

NOTICE

BELT DAMAGE HAZARD

Alignment of the belt must be checked at the hopper, drive box 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.

Belt Tracking at Hopper and Transition Rollers:

1. Rotate the conveyor belt slowly, and check the position of the belt at the tail roller.

Note:

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

2. Adjust one side of roller at a time.
 - Loosen bearing housing, then adjust bolt.
3. Tighten or loosen the adjustment bolts by a 1/4 turn to 2 turns.
4. Tighten the roller bearing housings bolts.
5. Rotate the conveyor belt slowly, and check the position of the belt on the hopper roller.
 - Repeat steps until the belt is centred.
6. Replace housing guard.

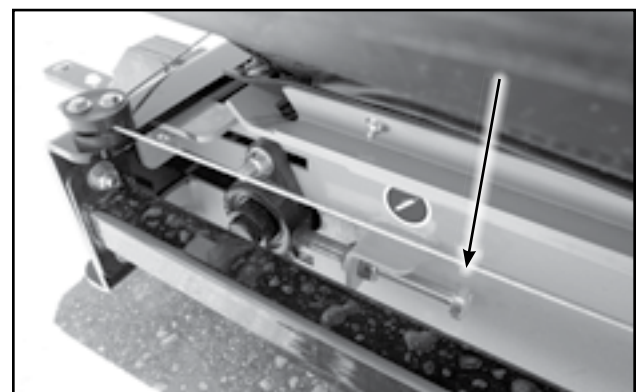


Fig 66 - Adjustment bolt on side of hopper

Belt Tracking inside Drive Box:

Aligning the belt, so it tracks down the centre of the drive roller, is counter-intuitive! It is opposite from aligning the end rollers.

This time you must “loosen the loose side”.

This is because the first roller to have contact with the belt is the pinch roller, but the drive roller (second in line) is the only one which can be adjusted.

1. Loosen the drive roller bearing housing on the loose side of the belt.
2. Use the adjustment bolts at the front of the drive box to move the brackets connected to the drive roller.
3. The misaligned belt will travel towards the loose side of the roller.
- Loosen the loose side, more.
4. Tighten the bearing housing.
5. Run the belt to check it's alignment.
- Repeat steps if necessary.
6. Replace the housing guard.

Belt Tracking at Discharge Roller:

7. Stop the belt and turn off the engine.
8. If necessary, remove the discharge spout to view the roller.

Note:

If belt is out of alignment,
it will move to the loose side.

Tighten loose side or loosen tight side.

9. Adjust one side of roller at a time.
- Loosen the bearing housing, then adjust.

10. Tighten the discharge roller bearing housing.
11. Run the belt a couple of revolutions and check the alignment.
- Repeat steps until the belt runs centred.
12. Replace bearing guard.

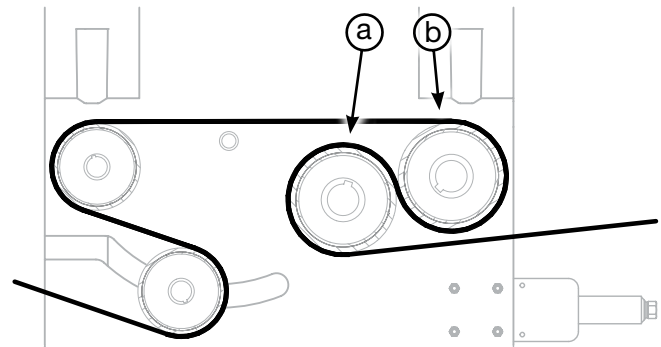


Fig 67 - Drive box, pinch roller (a) & drive roller (b)

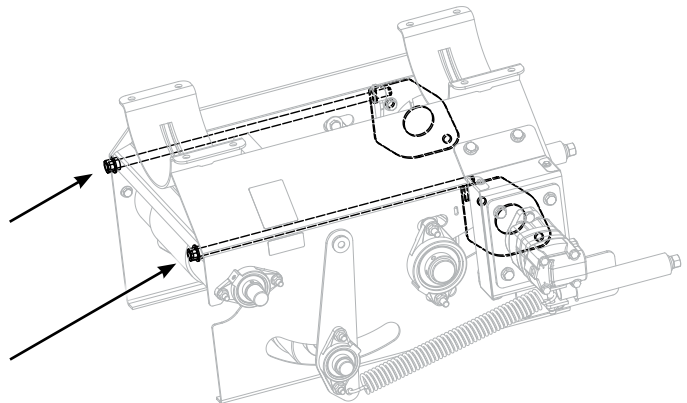


Fig 68 - Adjustment bolts and brackets inside drive box



Fig 69 - Inside discharge spout

4.3.3 Conveyor Belt Replacement:

1. Rotate the conveyor belt until the Alligator® Lacing is positioned under the tube, inside the wind guard, and is accessible.
2. Loosen the tension bolts at the drive box completely, to release pressure on the springs connected to the slack-eliminator roller.
3. Pull all the slack to the lacing area.
4. Remove the lacing cable and open the belt.
5. Attach the new belt to the end of the old belt which is hanging closest to the hopper.
6. Pull the end of the old belt which is coming from the direction of the discharge spout.
 - New belt will follow, threading into place.
7. Disconnect the old belt.
8. Link the ends of the new belt lacing.
9. Push the lacing cable through to fasten belt.

Note:

Cordless drill can be used to thread cable.
Proceed slowly.

10. Cut off excess cable.
11. Crimp the lacing at one end to lock cable in place.
12. Cut and taper the corners of the trailing end of the belt.

IMPORTANT:

Taper the trailing belt corners,
so they doesn't catch when rotating.

13. Set belt tension. Refer to Sections 4.3.1
14. Set the belt alignment. Refer to Section 4.3.2

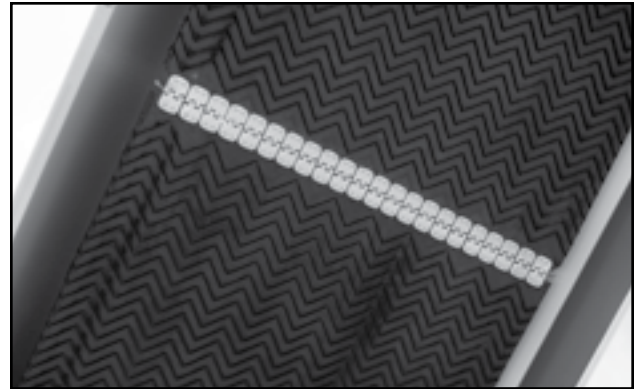


Fig 70 - Conveyor belt lacing

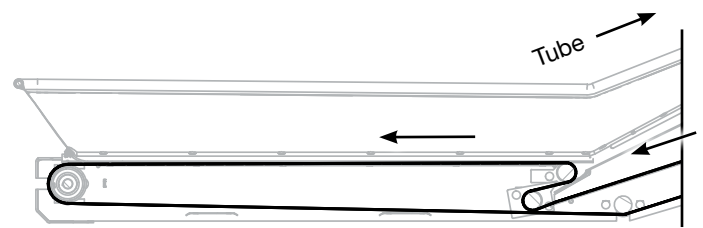


Fig 71 - Threading belt around hopper

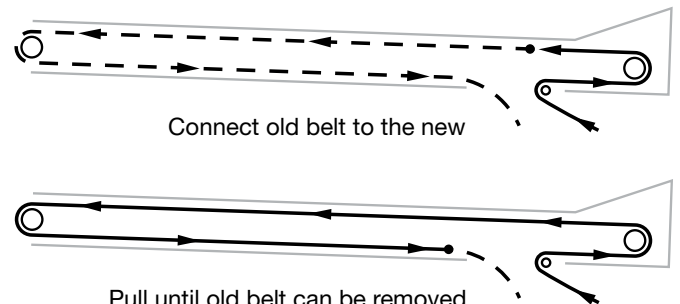


Fig 73 - Thread belt through conveyor

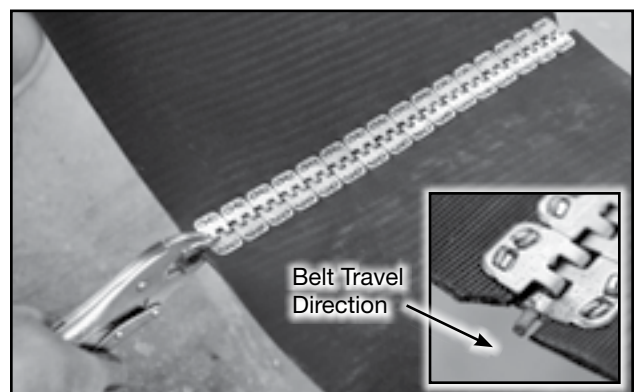


Fig 72 - Crimp lacing and taper belt corner

4.3.4 Change Hydraulic Oil:

Use an ISO grade 36 hydraulic oil for all operating conditions (Hydrex MV36 or comparable).

Oil reservoir holds 190 Litre (50 US Gal).

⚠ WARNING**HOT LIQUID HAZARD**

Allow hydraulics to cool before changing oil.
Hot oil will burn if it contacts exposed skin.

IMPORTANT:

Annually, have an oil sample tested for particle count.

Change oil only if necessary.

1. 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.

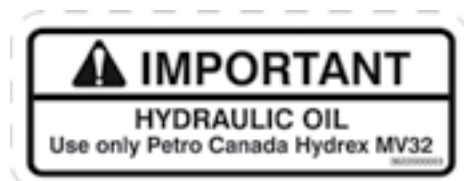
2. Place a large pan or pail under the drain plug.
- Pail must hold over 190 Litre (50 US Gal).
3. Remove the drain plug and allow the oil to drain for 10 minutes.
4. Install and tighten the drain plug.
5. Dispose of the used oil in an approved container and manner.
6. Fill the reservoir with specified oil.

4.3.5 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 74 - Hydraulic Oil Filter



3622000003

Fig 75 - Hydraulic oil decal

4.3.6 Standard Hopper Flashing Kit Replacement:

22 inch Hopper Flashing Kit Part #650505795
 - Patent pending

⚠ WARNING

HIGH SPRING TENSION

There is high spring tension on Hopper Hoop.
 Hold hoop securely before working
 on Hopper Canvas.

Sudden release of hoop will cause injury.
 Keep Winch locked, and cable connected.

1. Securely, strap the hopper hoop to the frame.
2. Remove the existing rubber flashing from the hopper and transition.
3. Move transition rollers as far apart as possible.
4. Tension the belt and adjust its tracking.
5. Lay the rubber side flashing down on the angled side bracket of the hopper.
 - The end with the large hole, will lay under the tail flashing.
6. Position the tail flashing over the side flashing.
7. Insert the elevator bolts:
 - First, through the flat bar inside the canvas.
 - Second, through the tail flashing.
 - Third, through the large hole in the side flashing.
 - Fourth, fasten to the tail bracket on the frame.

Note:

The side flashing should lay flush along their metal brackets.

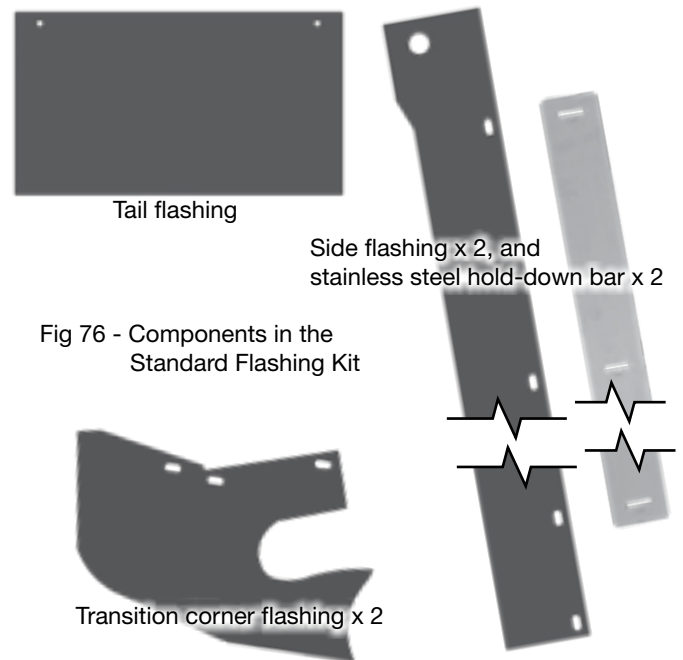


Fig 76 - Components in the Standard Flashing Kit



Fig 77 - Tail flashing on top of side flashing



Fig 78 - Transition corner flashing in place

8. Lay the transition, corner flashing in place.
 - **IMPORTANT:** Work the flashing around the roller to cup it well.
9. Lay the end of the side flashing over the transition flashing.
10. Insert elevator bolt through the flat bar inside the canvas, side and transition flashing pieces and fasten to the hopper frame.
 - Do not tighten the bolts yet.
11. Fasten the rest of the canvas at the transition.
12. Sandwich the stainless steel hold-down bar between the canvas and the side flashing.
 - Align the bolt holes with the flashing and the flat bar inside the canvas.
 - Start at the centre, inserting elevator bolts and fastening them to the hopper frame.
13. Push the stainless steel bar up behind the canvas, so the bolts are at the bottom of the slots.

Note:

As the side flashing wears from use, lower the stainless steel bar, so it continues to push the flashing tight against the belt.

14. Install the rest of the flashing on both sides.
 - Do not tighten the bolts yet.
15. **IMPORTANT:** Be sure the corner flashing fits tightly around the roller and deep into the transition.
 - It must cup the belt, tightly.
16. Reuse the Flashing Clamps to hold corner flashing in place.
 - Use self-tapping screws to fasten them.
17. Finally, tighten all the bolts and nuts.



Fig 79 - Stainless steel flat bar to hold side flashing

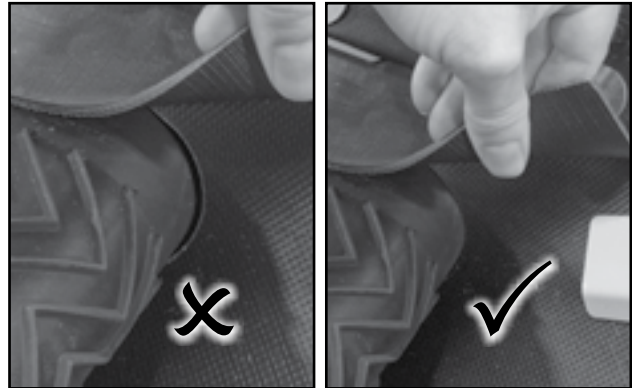


Fig 80 - Corner flashing must fit tight around the belt



Fig 81 - Fasten flashing clamp



Fig 82 - Hopper is complete

4.4 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.

Copy this page to continue record.

Maintenance \ Hours	Hours													
	Serviced By													
10 Hours or Daily														
Check Fuel Level														
Check Hydraulic Oil Level														
Check Radiator Fluid Level														
Clean Air Filter														
Inspect Conveyor Belt Lacing														
Inspect Rollers and Bearings														
50 Hours or Weekly														
Check Conveyor Belt Tension														
Check Conveyor Belt Alignment														
Check Hopper Flashing														
Inspect Hydraulic Drive Coupler/Chain														
Oil Hydraulic Drive Coupler/Chain														
100 Hours or Monthly														
Grease Hopper & Transition Roller Bearings														
Grease Drive Box Roller Bearings														
Grease Discharge Roller Bearings														
200 Hours or Annually														
Change Hydraulic System Oil and Filter														
Check the Battery														
Grease Drive Wheel Axle Bushings														
Grease Steering Cylinder														
Grease Drive Wheel Lift Cylinder														
Grease Conveyor Tube Lift Cylinder														
Repack Wheel Bearings														
Wash Conveyor														

4.5 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.

Section 5: TROUBLESHOOTING

This section contains a list of common problems, causes and offers quick solutions to those issues.

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 Solution
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Engine won't start

Low battery	Recharge or replace
No fuel	Refuel
Plugged fuel filter	Replace fuel filter
Cold engine	Open choke
Air filter dirty	Clean or replace the air filter

Electrical components do not function

Fuse may have blown	Replace a fuse. Check inside the junction box beside valve table. A fuse is connected to electrical cables between the engine and valve table.
---------------------	--

The engine bogs down or is labouring

Not enough power	Open the gate to unload more product. This allows the governor to torque and engage.
Hopper flashing too tight	It will wear in. Adjust to loosen the flashing if still tight after the conveyor has been broken-in.

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
Conveyor belt loose	Tighten and align
Conveyor belt loose because it has stretched	Remove lacing, cut belt shorter and relace

continued on next page

Conveyor belt doesn't turn or is slipping, continued

Conveyor 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
No power	Start engine, increase speed to maximum RPM
	Adjust hydraulic pressure
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
Set screw (relief valve) on Dtent control valve on belt drive valve isn't set correctly	IMPORTANT: Do not run hydraulic motor during this adjustment. Sweet spot is to turn the set screw all the way in, then turn back 1-1/2 turns. Turning back/out increases volume of flow, turning in increases pressure.
Hydraulic motor on drive roller may be damaged	Hydraulic motor may need to be replaced

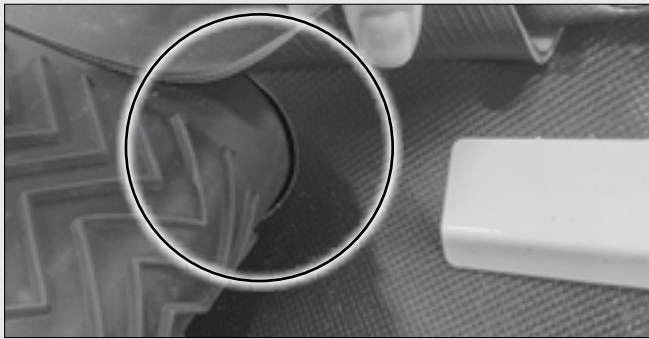
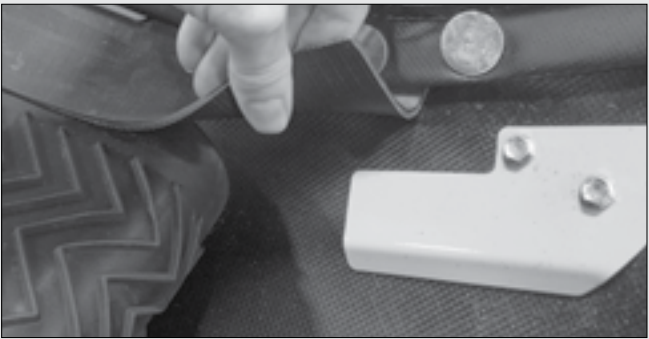
Conveyor belt won't align

Roller lagging may be worn	Replace roller or have it re-lagged
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Conveyor Belt Fraying

Belt not aligned	Align and adjust tension
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Product leakage

	
Corner Flashing may not be cupping the roller tight enough.	Loosen the Flashing Clamp, then adjust the rubber flashing so it is tight around the roller.
Product may be getting under the belt at the hopper, traveling up inside the belt and leaking off delivery end	Replace hopper flashing

continued on next page

Low capacity

Conveyor belt not tight enough	Tighten conveyor belt
Conveyor belt not pinched enough	Inside drive box there is a drive roller and pinch roller. Be sure the belt is snug between both rollers.
Conveyor angle exceeds 30 degrees	Reposition with a lower tube slope

Belt is slowing down

Problem with 2 stage pump	Check flow of the pump. Check pump pressures. Replacement of entire pump may be needed
---------------------------	--

No hydraulic flow

Hydraulic valve closed or plugged	Open hydraulic valve
	Check hydraulic pressures
	Clean or replace hydraulic valve
Hydraulic pressure may be low, check gauge. It should be 1000 - 1200 lb when empty, and in 2000 lb range when loaded.	Check hydraulic pump. Replace if necessary
Hydraulic pump may be damaged	Check hydraulic pump. Replace if necessary

Drive wheel keeps sinking to the ground

Leak in hydraulic manifold or cylinder	Replace cartridge in check valve, or replace seals in cylinder
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Section 6: REFERENCE

For information not included here, or for a digital copy of this manual, please call your dealer, or Meridian Manufacturing Inc. directly for assistance: (800) 665-7259.

Specifications and measurements are subject to change without notice.

Table 1 - Specifications

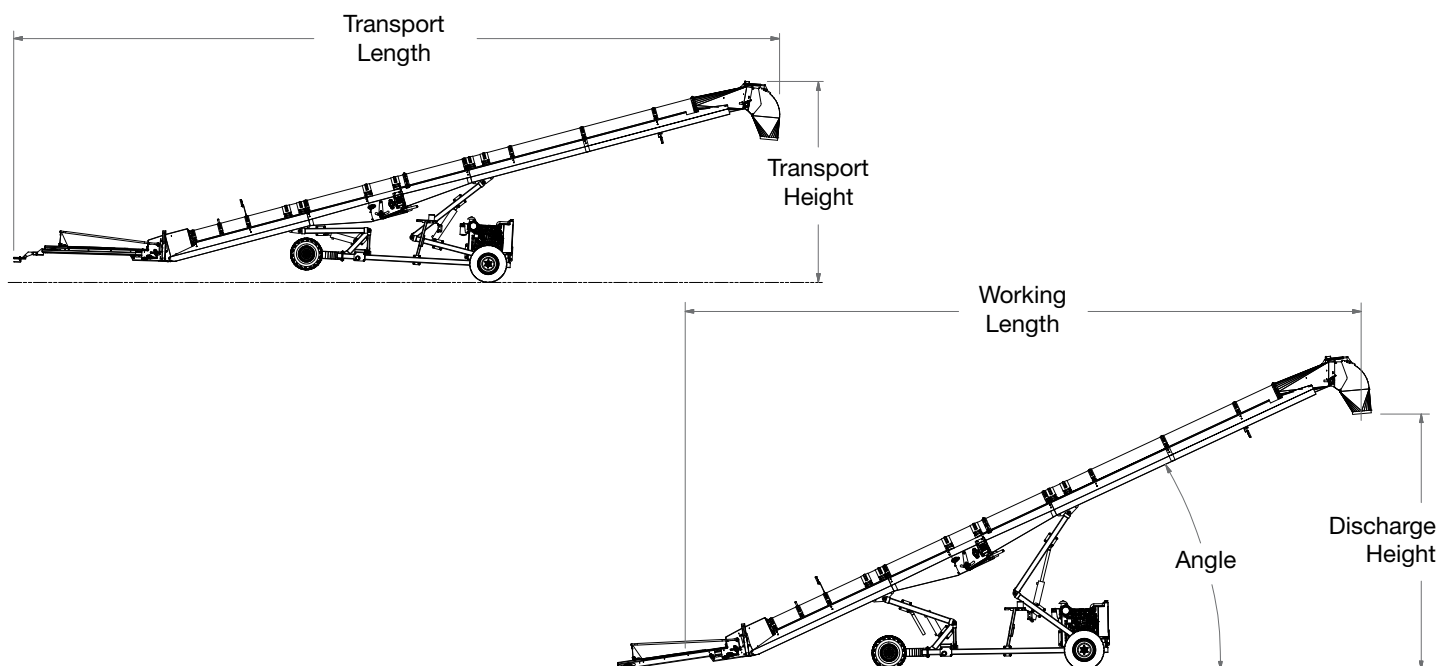
MODEL	TYPE OF UNDER-CARRIAGE	TUBE DIAMETER	BELT WIDTH	AXLE WIDTH	TRANSPORT HEIGHT	TRANSPORT LENGTH	GAS POWER	DIESEL POWER
2250-TL	Scissor Lift	14"	22"	8' 4"	13' 6"	51' 6"	n/a	50hp
2258-TL	Scissor Lift	14"	22"	8' 4"	15' 4"	58' 10"	n/a	50hp

Transport lengths are measured from end to end
Transport heights use 19 inch hitch height

Table 2 - Working Measurements

MODEL	15°		20°		25°		30°	
	HEIGHT	LENGTH	HEIGHT	LENGTH	HEIGHT	LENGTH	HEIGHT	LENGTH
2250-TL	n/a	n/a	12' 2"	49' 1"	16' 3"	47' 9"	19' 9"	46' 3"
2258-TL	n/a	n/a	15' 9"	58' 7"	20' 7"	56' 11"	24' 6"	55' 2"

Working lengths are measured from centre of hopper to centre of discharge



6.1 BOLT TORQUE

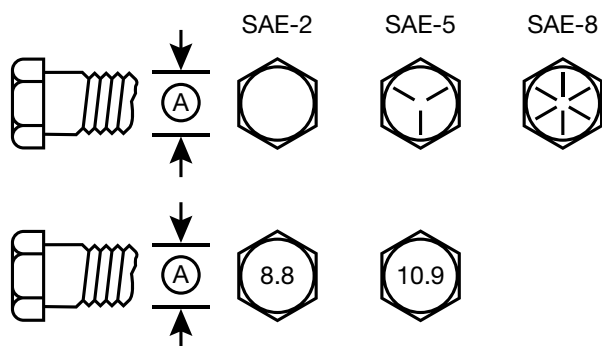
The tables shown below give correct torque values for various bolts and capscrews. Tighten all bolts to the torques specified in chart unless otherwise noted. Check tightness of bolts periodically, using bolt torque chart as a guide. Replace hardware with the same strength bolt.

Table 3 - English Torque Specifications

BOLT DIA. "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 4 - Metric Torque Specifications

BOLT DIA. "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



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.

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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.

Register your product at: www.meridianmfg.com
For warranty information send an email to: warranty@meridianmfg.com

WARRANTY REQUEST PROCEDURE

1. The product must be registered with Meridian Manufacturing Inc.
2. The purchaser must contact the dealer, from where the unit was purchased, immediately upon discovery of any defects.
3. A completed Warranty Request (Claim) Form must be submitted by the dealer to the Meridian's warranty representative for review and any subsequent course of action.
 - Warranty requests must be completed with ALL required information in order it to be considered for approval.
 - 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. Warranty work completed prior to Meridian's approval will NOT be honoured. Failure to follow this procedure may affect any or all of this warranty.
5. All warranty requests will be adjudicated at the sole discretion of Meridian and in accordance with the terms and conditions of the warranty.

CONVEY-ALL[®]

(800) 665-7259 | www.convey-all.com | conveyors@convey-all.com