

Portable Grain Belt Conveyor

WCX 1335 Top Drive Operator's Manual

Electric and Hydraulic Drives
Original Instructions





We strongly recommend that all personnel associated with this equipment be trained in the correct operational and safety procedures required for this product. This product has been designed and constructed according to general engineering standards, other local regulations may apply and must be followed by the operator. Use the sign-off sheet below to record initial and periodic reviews of this manual with all such personnel.

Date	Employee Signature	Employer Signature

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1. Introduction

Thank you for purchasing a Westfield Portable Grain Belt Conveyor. This equipment will allow safe and efficient operation when you read and follow all of the instructions contained in this manual. With proper care, your conveyor will provide you with many years of trouble-free operation.

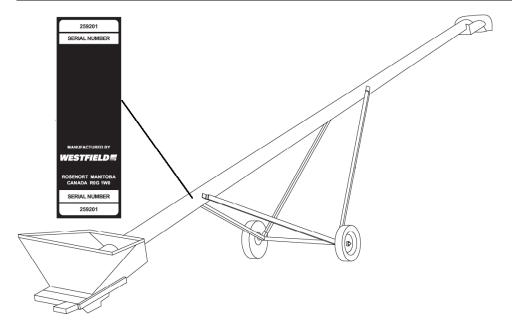
Keep this manual handy for frequent reference and to review with new personnel. A sign-off form is provided on the inside front cover for your convenience. If any information in this manual is not understood or if you need additional information, please contact your local distributor or dealer for assistance.

This manual should be regarded as part of the equipment. Suppliers of both new and second-hand equipment are advised to retain documentary evidence that this manual was provided with the equipment.

1.1. Serial Number Location

Always give your dealer the serial number on your conveyor (shown below) when ordering parts or requesting service or other information. Please record this information in the table below for easy reference.

Model Number	
Serial Number	
Date Received	



1.2. Intended Use

The conveyor is designed solely for use in the intended agricultural use as listed below. Use in any other way is considered as contrary to the intended use. Compliance with and strict adherence to the conditions of

operation and maintenance as specified by the manufacturer, also constitute essential elements of the intended use.

The conveyor should be operated, maintained, serviced, and repaired only by persons who are familiar with its particular characteristics and who are acquainted with the relevant safety procedures.

Accident prevention regulations and all other generally recognized regulations on safety and occupational medicine must be observed at all times.

Any modifications made to the conveyor may relieve the manufacturer of liability for any resulting damage or injury.

Intended use for the conveyor:

- Handling grain, pulse crops, treated seeds, or other similar materials.
- Handling fertilizer when strict operation and cleanout procedures are followed as noted in Operation section.

Use in any other way is considered as contrary to the intended use and is not covered by the warranty.

1.2.1 Misuse

Do not use the conveyor for:

- transferring material other than dry, free-flowing food-grains.
- · conveying canola, or any other oilseeds
- lifting or using as a hoist or crane.



2. Safety

2.1. Safety Alert Symbol and Signal Words



This safety alert symbol indicates important safety messages in this manual. When you see this symbol, be alert to the possibility of injury or death, carefully read the message that follows, and inform others.

Signal Words: Note the use of the signal words **DANGER**, **WARNING**, **CAUTION**, and **NOTICE** with the safety messages. The appropriate signal word for each message has been selected using the definitions below as a guideline.

▲ DANGER

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

⚠ WARNING

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

⚠ CAUTION

Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.

NOTICE

Indicates a potentially hazardous situation that, if not avoided, may result in property damage.

2.2. Product Safety

YOU are responsible for the **SAFE** use and maintenance of your conveyor. **YOU** must ensure that you and anyone else who is going to work around the conveyor understands all procedures and related **SAFETY** information contained in this manual.

Remember, **YOU** are the key to safety. Good safety practices not only protect you, but also the people around you. Make these practices a working part of your safety program. All accidents can be avoided.

 It is the conveyor owner, operator, and maintenance personnel's responsibility to read and understand ALL safety instructions, safety decals, and manuals and follow them when assembling, operating, or maintaining the equipment.



- Owners must give instructions and review the information initially and annually with all personnel before
 allowing them to operate the conveyor. Untrained users/operators expose themselves and bystanders to
 possible serious injury or death.
- The conveyor is not intended to be used by children.
- Use the conveyor for its intended purposes only.
- Do not modify the conveyor in any way without written permission from the manufacturer. Unauthorized modification may impair the function and/or safety, and could affect the life of the conveyor. Any unauthorized modification of the conveyor will void the warranty.

2.3. Overhead Power Lines



- When operating or moving, keep conveyor away from overhead power lines and devices.
- The conveyor is not insulated.
- Electrocution can occur without direct contact.



2.4. Moving Conveyor Belt Safety



- DO NOT step on or touch moving conveyor belt.
- Shut off and lock out power to adjust, service, or clean.



2.5. Upending

⚠ WARNING

- Anchor intake end and/or support discharge end to prevent upending.
- Intake end must always have downward weight. Do not release until attached to tow bar or resting on ground.
- Do not raise intake end above tow bar height.
- Empty the conveyor and fully lower before moving.



2.6. Rotating Parts Safety

⚠ WARNING

- Keep body, hair, and clothing away from rotating pulleys, belts, chains, and sprockets.
- Do not operate with any guard removed or modified. Keep guards in good working order.
- Shut off and remove key or lock out power source before inspecting or servicing machine.

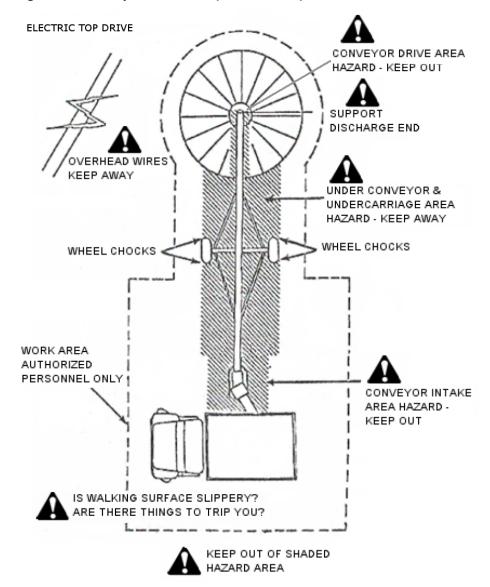


2.7. Work Area Safety

- Have another trained person nearby who can shut down the conveyor in case of accident.
- The work area should be kept clear of bystanders.
- Keep the work area clean and free of debris.



Figure 1. Conveyor Work Area (Electric Drive)



HYDRAULIC TOP DRIVE CONVEYOR DRIVE AREA - KEEP OUT SUPPORT DISCHARGE END OVERHEAD WIRES KEEP AWAY UNDER CONVEYOR & UNDERCARRIAGE AREA HAZARD - KEEP AWAY WHEEL CHOCKS WHEEL CHOCKS CONVEYOR INTAKE AREA - HAZARD KEEP OUT WHEEL CHOCKS WORK AREA AUTHORIZED IS WALKING SURFACE SLIPPERY? PERSONNEL ONLY ARE THERE THINGS TO TRIP YOU? KEEP OUT OF SHADED HAZARD AREA

Figure 2. Conveyor Work Area (Hydraulic Drive)

2.8. Guards Safety

- ★ WARNING Keep guards in place and do not operate unless all guards are in place.
 - Do not walk on, step on, or damage guards.
 - Lock out power before removing a guard.
 - Ensure all guards are replaced after performing maintenance.



2.9. Raising and Lowering the Conveyor

- MARNING Before raising/lowering/moving/adjusting the conveyor, make sure the area around the conveyor is clear of obstructions and/or untrained personnel. Never allow anyone to stand on or beneath the conveyor when it is being placed.
 - Lower the conveyor to its lowest position when not in use.
 - Empty the conveyor before raising or lowering.
 - Do not get on or beneath the conveyor when raising or lowering.
 - Raise and lower conveyor on reasonably level ground only.
 - Never attempt to increase height of the tube by positioning wheels on lumber, blocks, or by any other means. To do so will result in damage to conveyor and/or serious injury.

2.10. Hand Winch Safety

⚠ WARNING When Equipped:

- Inspect lift cable before using. Replace if frayed or damaged. Make sure lift cable is seated properly in cable sheaves and cable clamps are secure.
- Tighten brake lock by turning winch handle clockwise at least two clicks after lowering the conveyor.
- · Lower the conveyor fully before towing, then rotate winch handle until cable has light tension.
- Do not lubricate winch brake discs.

2.11. Conveyor Stability

- WARNING Transport and place equipment on reasonably level ground when raising, lowering, positioning, or operating.
 - Chock wheels and anchor intake end after placement.

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2.12. Towing the Conveyor

- MARNING Check with local authorities regarding transport on public roads. Obey all applicable laws and regulations.
 - Always travel at a safe speed, never exceeding 20 mph (32 km/h).
 - Reduce speed on rough surfaces.
 - Do not transport on slopes greater than 20°.
 - Use caution when turning corners or meeting traffic.
 - · Make sure the SMV (slow moving vehicle) emblem and all the lights and reflectors that are required by local authorities are in place, are clean, and can be seen by all over-taking and oncoming traffic.
 - Always use hazard-warning flashers on tractor/towing vehicle when transporting unless prohibited by law.
 - Do not allow riders on the conveyor or towing vehicle during transport.
 - Attach to towing vehicle with an appropriate pin and retainer. Always attach safety chain(s).
 - Place the conveyor in the transport position before moving on roads.

2.13. Drives and Lockout Safety

Inspect the power source(s) before using and know how to shut down in an emergency. Whenever you service or adjust your equipment, make sure you shut down the power source and unplug or remove the key (as applicable) to prevent inadvertent start-up and hazardous energy release. Know the procedure(s) that applies to your equipment from the following power source(s). Ensure that all personnel are clear before turning on power to equipment.





2.13.1 Electric Motor Safety

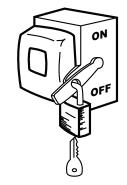
⚠ WARNING Power Source

- Electric motors and controls shall be installed and serviced by a qualified electrician and must meet all local codes and standards.
- A magnetic starter should be used to protect your motor.
- You must have a manual reset button.
- Reset and motor starting controls must be located so that the operator has full view of the entire operation.
- Locate main power disconnect switch within reach from ground level to permit ready access in case of an emergency.
- Motor must be properly grounded.
- Guards must be in place and secure.
- Ensure electrical wiring and cords remain in good condition; replace if necessary.
- Use a totally enclosed electric motor if operating in extremely dusty conditions.

Lockout

- · The main power disconnect switch should be in the locked position during shutdown or whenever maintenance is performed.
- If reset is required, disconnect all power **before** resetting motor.

SERVICE DISCONNECT





2.13.2 Hydraulic Power Safety

⚠ WARNING Power Source

- Refer to the rules and regulations applicable to the power source operating your hydraulic drive.
- Do not connect or disconnect hydraulic lines while system is under pressure.
- Keep all hydraulic lines away from moving parts.
- Escaping hydraulic fluid under pressure will cause serious injury if it penetrates the skin surface (serious infection or toxic reaction can develop). See a doctor immediately if injured.
- Use metal or wood as a backstop when searching for hydraulic leaks and wear proper hand and eye protection.
- · Check all hydraulic components are tight and in good condition. Replace any worn, cut, abraded, flattened, or crimped hoses.
- Clean the connections before connecting to equipment.
- Do not attempt any makeshift repairs to the hydraulic fittings or hoses with tape, clamps, or adhesive. The hydraulic system operates under extremely high pressure; such repairs will fail suddenly and create a hazardous and unsafe condition.

Lockout

 Always place all hydraulic controls in neutral and relieve system pressure before disconnecting or working on hydraulic system.



2.14. Tire Safety



Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion that may result in serious injury or death.



- DO NOT attempt to mount a tire unless you have the proper equipment and experience to do the job.
- Have a qualified tire dealer or repair service perform required tire maintenance.
- When replacing worn tires, make sure they meet the original tire specifications. Never undersize the replacement tire.
- DO NOT weld to the tire rim with the tire mounted on the rim. This action may cause an explosion which could result in serious injury or death.
- Inflate tires to the manufacturer's recommended pressure.
- Tires should not be operated at speeds higher than their rated speed.
- Keep wheel lug nuts tightened to manufacturer's recommendations.
- Never reinflate a tire that has been run flat or seriously under-inflated without removing the tire from the wheel.
 Have the tire and wheel closely inspected for damage before remounting.



2.15. Personal Protective Equipment

The following Personal Protective Equipment (PPE) should be worn when operating or maintaining the equipment.

Safety Glasses

Wear safety glasses at all times to protect eyes from debris.



Coveralls

Wear coveralls to protect skin.



Hard Hat

Wear a hard hat to help protect your head.



Steel-Toe Boots

• Wear steel-toe boots to protect feet from falling debris.



Work Gloves

• Wear work gloves to protect your hands from sharp and rough edges.



Dust Mask

• Wear a dust mask to prevent breathing potentially harmful dust.



2.16. Safety Equipment

The following safety equipment should be kept on site:

Fire Extinguisher

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



First-Aid Kit

 Have a properly-stocked first-aid kit available for use should the need arise, and know how to use it.



2.17. Safety Decals

- Keep safety decals clean and legible at all times.
- Replace safety decals that are missing or have become illegible. See decal location figures that follow.
- Replaced parts must display the same decal(s) as the original part.
- Replacement safety decals are available free of charge from your distributor, dealer, or factory as applicable.

2.17.1 Decal Installation/Replacement

- 1. Decal area must be clean and dry, with a temperature above 50°F (10°C).
- 2. Decide on the exact position before you remove the backing paper.
- 3. Align the decal over the specified area and carefully press the small portion with the exposed sticky backing in place.
- 4. Slowly peel back the remaining paper and carefully smooth the remaining portion of the decal in place.
- 5. Small air pockets can be pierced with a pin and smoothed out using the sign backing paper.



2.17.2 Safety Decal Locations and Details

Replicas of the safety decals that are attached to the conveyor and their messages are shown in the figure(s) that follow. Safe operation and use of the conveyor requires that you familiarize yourself with the various safety decals and the areas or particular functions that the decals apply to, as well as the safety precautions that must be taken to avoid serious injury, death, or damage.

Figure 3. Safety Decal Location

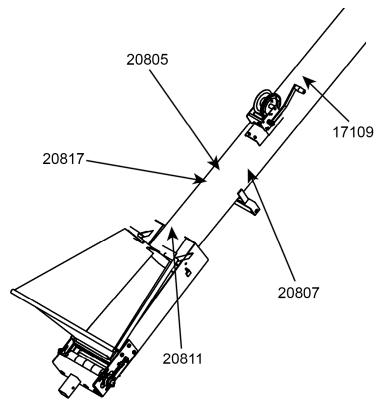




Figure 4. Electric Drive Safety Decal Locations

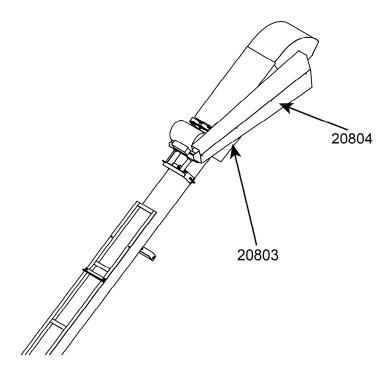


Figure 5. Hydraulic Drive Safety Decal Location

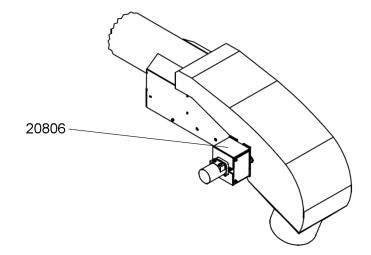


Table 1. Safety Decals

Part Number	Description
20817	<u> </u>
	ELECTROCUTION HAZARD
	To prevent death or serious injury:
	When operating or moving, keep equipment away from overhead power lines and devices.
	Fully lower equipment before moving.
	This equipment is not insulated.
	Electrocution can occur without direct contact.
20811	<u> </u>
	UPENDING HAZARD
	To prevent death or serious injury: • Anchor intake end and/or support discharge end to prevent upending. • Do not raise intake end above tow bar height.
	Intake end must always have downward weight. Do not release until attached to tow bar or resting on ground. Intake end must always have downward weight. Do not release until attached to tow bar or resting on ground. Empty conveyor and fully lower before moving.

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Table 1 Safety Decals (continued)

Part Number Description 20807 **⚠ WARNING** To prevent serious injury or death: Read and understand the manual before assembling, operating, or maintaining the equipment. • Only trained personnel may assemble, operate, or maintain the equipment. • Children and untrained personnel must be kept outside of the work area. Do not modify the equipment. Keep in good working order. • If the manual, guards, or decals are missing or damaged, contact factory or dealer for replacements. · Lock out power before performing maintenance. • To prevent equipment collapse, support equipment tube while disassembling certain components. • Electric motors must be grounded. Disconnect power before resetting overloads.



Table 1 Safety Decals (continued)

Part Number	Description	
20804	⚠ WARNING	
	ENTANGLEMENT HAZARD	
	To prevent serious injury or death:	
	Keep body, hair, and clothing away from rotating pulleys, belts, chains, and sprockets.	
	Do not operate with any guard removed or modified. Keep guards in good working order.	
	Shut off and remove key or lock out power source before inspecting or servicing machine.	
20803		
(behind guard)	⚠ WARNING	
	To prevent serious injury or death, shut off power and reattach guard before operating machine.	

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Table 1 Safety Decals (continued)

Part Number	Description	
20805	⚠ WARNING	
	HIGH PRESSURE FLUID HAZARD Hydraulic fluid can cause serious injury if it penetrates the skin. If it does, see a doctor immediately. • Relieve system pressure before repairing, adjusting or disconnecting. • Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands.	
20806	HIGH PRESSURE FLUID HAZARD Hydraulic fluid can cause serious injury if it penetrates the skin. If it does, see a doctor immediately. Relieve system pressure before repairing, adjusting or disconnecting. Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands.	



Table 1 Safety Decals (continued)

Part Number	Description	
17109	A CAUTION	
	For proper raising and lowering of equipment:	
	After lowering equipment, always tighten brake lock by turning winch handle clockwise at least two clicks.	
	Rotate winch handle until cable has light tension, when in towing position.	
	Do not lubricate winch brake discs.	
	Inspect lift cable periodically; replace if damaged.	
	Inspect cable clamps periodically; tighten if necessary.	



31030 R0

3. Transport



Before continuing, ensure you have completely read and understood this manual's Safety section, in addition to the safety information in the section(s) below.

3.1. Transport Safety

- MARNING Check with local authorities regarding transport on public roads. Obey all applicable laws and regulations.
 - Always travel at a safe speed, never exceeding 20 mph (32 km/h). Reduce speed on rough surfaces. Use caution when turning corners or meeting traffic.
 - Yield to other drivers and allow faster traffic to pass.
 - Make sure the SMV (slow moving vehicle) emblem and all the lights and reflectors that are required by local authorities are in place, are clean, and can be seen by all over-taking and oncoming traffic. Always use hazard-warning flashers on tractor/towing vehicle when transporting unless prohibited by law.
 - Do not transport during times of limited visibility such as fog, snow, or heavy rain. Take extra precautions at night and at dusk.
 - Keep others away from the transport vehicle and conveyor.
 - Do not allow riders on the conveyor or towing vehicle during transport.
 - Stay away from overhead obstructions and power lines when operating and transporting. Electrocution can occur without direct contact.
 - Fully lower the conveyor before transporting, and only raise when next to storage facility.
 - Attach to towing vehicle with a pin and retainer. Always attach safety chain(s).
 - Do not raise the intake end above drawbar, upending may occur.
 - Empty conveyor of all grain before transporting. Transporting a full conveyor will place excessive loads on the tube, frame, axle, hitch, and tow vehicle.
 - Do not transport on slopes greater than 20°.
 - Do not transport with an under-inflated tire(s).
 - If the conveyor wheels are partially or fully buried in snow or grain, failure to clear area around the wheels before transporting may cause damage to the conveyor or result in serious injury.

3.2. Transport Preparation

- 1. It is not recommended that the conveyor be transported faster than 20 mph (32 km/h). Table 2 on page 25 references the acceptable transport speed as per the ratio of tractor weight versus conveyor weight. See Specifications for conveyor weights.
- 2. Ensure the conveyor will clear any overhead obstructions or electrical wires prior to transporting. Refer to Specifications for the transport height of your conveyor.
- 3. Longer conveyors have a large turning radius. Allow ample room for turning as discharge end may swing dramatically.

Table 2. Speed versus Weight Ratio

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

3.3. Connect the Conveyor to the Towing Vehicle

Follow all safety precautions when transporting the conveyor and use a proper towing vehicle.

- 1. Place the conveyor in the full down position. The frame should be in the full down position with slight tension on the lift cable. Refer to Lowering procedure.
- 2. Place and secure hitch pin and safety chain. The safety chain should be threaded and form a cradle that will prevent the conveyor from digging into the road surface or upsetting (should a breakaway occur) before attaching to the towing vehicle.
- 3. Replace the safety chain if one or more links or end fittings are stretched, broken, damaged, or deformed.
- 4. The safety chain should have a load rating at least as high as the conveyor weight, refer to Specifications.

Important

Use a type of hitch pin that will not allow conveyor to separate from towing vehicle.

5. Use caution when transporting the conveyor over rolling terrain. In severe dips, the intake end may contact the ground.



4. Placement



Before continuing, ensure you have completely read and understood this manual's Safety section, in addition to the safety information in the section(s) below.

4.1. Placement Safety

⚠ WARNING

- The conveyor is not insulated, keep away from overhead power lines. Electrocution can occur without direct contact.
- · Anchor intake end before using.
- Place the conveyor on reasonably level ground before operating. The conveyor could topple if ground is too uneven.
- Chock the conveyor wheels after placement.
- Empty the conveyor before raising, lowering, or positioning.
- Check that wheels are free to move before raising or lowering the conveyor.
- Never attempt to increase height of the conveyor by positioning wheels on lumber, blocks, or by any other means.
- Do not permit anyone to stand beneath the conveyor when raising or lowering.
- Move the conveyor into position slowly. Do not unhitch and attempt to move by hand.
- Do not leave tube in raised position when not in use.

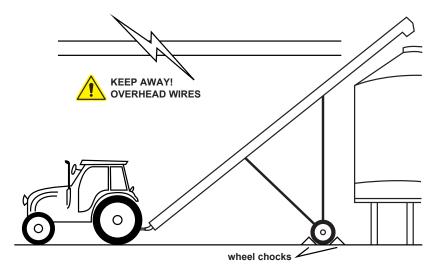
4.2. Positioning the Conveyor

To position the conveyor using a tractor:

Filling Bins

- 1. Back the conveyor up to the bin while it is in its lowered configuration.
- 2. Set the park brake on the tractor before dismounting.
- 3. Raise the conveyor so it clears the bin.
- 4. Slowly back the conveyor up until the outlet is over the opening in the bin.
- 5. Unhook the conveyor from the tractor and lower the intake end to the ground.
- WARNING Upending hazard, do not hook or unhook hitch unless weight is down.
- 6. Slowly lower the conveyor spout to the bin.
 - **NOTICE** Do not rest the spout or hood on the bin. This may cause hood or belt damage.
- 7. Remove the hitch from the conveyor to prevent interfering with other equipment.
- 8. Place chocks in the front and back of each wheel and anchor the intake end.

Figure 6. Typical Grain Conveyor Placement for Filling Bins



Under Hopper Bottom Bins

- 1. Center the conveyor between the hopper bin's vertical legs.
- 2. Collapse the cloth hopper until the conveyor is fully positioned under the bin.
- 3. Move the conveyor into place. Do not allow the conveyor tube or components to contact the bin.
- 4. Raise the conveyor to the desired height.
- 5. Make sure that gravel is not jammed against the belt under the hopper.
- 6. Place chocks in the front and back of each wheel and anchor the intake end.

4.3. Hand Winch Operation



When equipped with a Hand Winch:

Before using the hand winch, ensure that:

- the cable anchor on the winch drum is tight.
- all cable clamps are secure.
- the lift cable is seated in cable pulley.
- the cable is in good condition, if damaged, replace it immediately.
- there is a minimum of 3 cable wraps on the winch drum when the conveyor fully lowered.

To operate:

- 1. Turn the winch handle to raise and lower the conveyor. The winch must make a clicking sound when raising the conveyor. If clicking sound stops, retain grip on handle, lower the conveyor fully and repair winch.
- 2. When lowering, if the cable becomes slack before conveyor is in full down position, this indicates that the track shoe is stuck. To correct the problem, reverse the winch and raise the conveyor until the cable is taut and the track slides normally. Do not lubricate the winch brake discs.

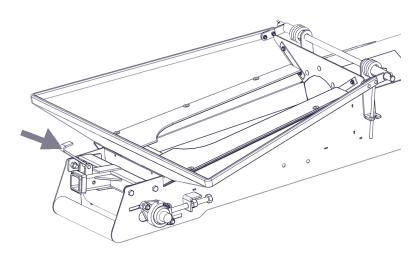
- 3. After lowering the conveyor, always tighten the brake lock by turning the winch handle clockwise at least two clicks.
- 4. After lowering, rotate the winch handle until cable has light tension.

4.4. Collapsible Hopper Cloth

The conveyor is designed with a collapsible hopper cloth to allow it to go under low discharge units.

Push the hopper down and secure with hook. Push down again to release the hook and raise the hopper cloth. Refer to Figure 7 on page 28.

Figure 7. Typical Collapsible Hopper



4.5. Conveyor Operating Angles

The conveyor lift can set the tube angle up to 30° when operating. Because the belt does not have roll back barriers, the material will roll back if the angle is too steep. Do not position the conveyor at an angle steeper than the grain will roll back (angle of repose) of the material to be moved.

Note

The lower the angle, the greater the capacity of the conveyor.

The following table indicates the maximum angle a conveyor can move grain.

To roughly determine conveyor angle, use angle guide on right. Stand the manual (vertically) on conveyor tube and hold a string with a weight attached to end against the top of this page. Weighted end of string will fall between degree lines, and from this the approximate angle of the conveyor can be determined.



Figure 8. Conveyor Operating Angles



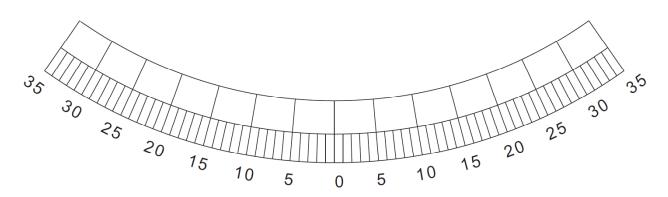


Table 3. Maximum Conveying Angles for Grains

Grain	Maximum Conveyor Operating Angle (degrees)
Flax	24
Lentils	29
Mustard	26
Oats	28
Peas	30
Rice	36

Table 3 Maximum Conveying Angles for Grains (continued)

Grain	Maximum Conveyor Operating Angle (degrees)
Rye	25
Soybeans	28
Sunflower	22
Triticale	23
Wheat	26
Alfalfa Pellets	34
Barley	25
Canary Seed	26
Chickpeas	30
Corn	26
Shelled Corn (dry)	25
Shelled Corn (wet)	28
Cotton Seed	30-45
Durum	25



5. Operation



Before continuing, ensure you have completely read and understood this manual's Safety section, in addition to the safety information in the section(s) below.

5.1. Operation Safety

- MARNING Keep away from rotating and moving parts, including the conveyor belt, drive components, shafts, and bearings.
 - Do not enter the grain bin while the conveyor is operating.
 - Always operate with guards, covers, and shields in place.
 - Have another trained person nearby who can shut down the equipment in case of accident.
 - Keep the work area clear of bystanders.
 - Keep the work area clean and free of debris.
 - Ensure maintenance has been performed and is up to date.



Refer to your bin operation manual for specific operating and safety information for your bin.

5.2. Start-up and Break-in

Although there are no operational restrictions on the conveyor when used for the first time, it is recommended that the following items be checked during the first hours of operation.

- 1. Check that the conveyor intake and discharge areas are free of obstructions.
- 2. Check conveyor belt alignment to ensure preset alignment does not vary under loaded conditions. See Maintenance Section for alignment instructions.
- 3. Check the conveyor belt tension. See Maintenance Section for tension instructions.



- 4. Electric Drive Models: Check the drive belt tension and alignment. See Maintenance Section for instructions.
- 5. Check the pinch roller bearings on the top drive pinch roller are not tight.
- 6. Visually inspect the conveyor, see Visual Inspection in Maintenance Section.
- 7. Check tightness of all bolts/nuts, fasteners, and hardware (re-torque if necessary).
- 8. Start the conveyor and operate normally, refer to power source instructions for further detail.
- 9. Be aware of unusual sounds. If any are heard, determine the source and stop the conveyor. Lock out and correct the problem before resuming work. If you are unsure of the problem or procedure, contact your local dealer.
- 10. Do not run the conveyor for long periods of time without material on the conveyor belt because it increases wear. Try to run only when moving material.
- 11. Stop the conveyor when it is empty of grain and lockout power, lower fully.

Important

After the initial start-up and inspection, the conveyor should be shut down and visually inspected (see Maintenance Section) after approximately ten hours of operation.

5.3. Operation - Electric Motor Models



When equipped with an Electric Motor:

- 1. Turn the electric motor on.
- 2. Run until the conveyor is empty.
- 3. Turn off motor and lock out power source.
- Unplug the power cord, wrap around the equipment and secure to prevent dragging, especially when transporting or placing the conveyor.

5.4. Operation - Hydraulic Motor Models

- 1. Place all tractor controls in neutral.
- 2. Start the tractor and run at low idle.
- 3. Engage the tractor hydraulic control lever and increase the engine to desired speed.

Note

The correct operation of a hydraulic system is directly linked to the pump's ability to supply the correct oil flow and pressure. If you cannot obtain the correct belt speed, check with your dealer to ensure the power unit is delivering the correct oil volume and pressure.

- 4. Run until the belting is empty.
- 5. Reduce tractor engine speed to low idle.
- 6. Place hydraulic control lever in neutral.
- 7. Shut off engine and remove ignition key.
- 8. Disconnect hydraulic hoses, and wrap hose around frame to prevent dragging.

5.5. Loading Area

To achieve maximum capacity:

- Feed material onto the belt until the material tube clearance is 1/2".
- Direct the flow of material into the input hopper in the direction of the belt travel for the best capacity.

Do not flood feed the hopper.

5.6. Conveyor Belt Speed

The best results are obtained when the input drives are set to provide a conveyor belt speed of 600 to 650 ft/ min.

Count the number of belt revolutions per minute to determine belt speed. See Specifications for belt length.

Note

Use the connector splice as a reference when counting belt revolutions.

To calculate, for example, 600ft/minute belt speed for a 47ft belt:



$$\frac{BeltSpeed}{BeltLength} = \frac{600}{47} = 12.76$$

Therefore, 12.76 or approximately 13 belt passes per minute will provide a 600ft/min belt speed.

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

If the belt speed is too low, conveyor may leak around transition area.

5.7. Emergency Shutdown

In an emergency situation:

- 1. Stop or shut down the power source immediately and lock out all power.
- 2. Stop the flow of material (if applicable).
- 3. Ensure the machine components come to a stop before inspecting.
- 4. Correct the emergency situation before resuming work.

5.8. Restarting with a Full Tube

When the conveyor is shut down inadvertently or due to an emergency, the tube may still be filled with grain.

- 1. With the power source locked out, remove as much of the grain as possible from the tube and intake using a shop vacuum or other tool. Do not use your hands.
 - NOTICE Starting under load may result in damage to the conveyor if grain is not removed as much as possible.
- 2. If guards or covers have been opened or removed, close or replace them before restarting the unit.



3. **Electric Drive Models:** It may be necessary to tighten the drive belts slightly to handle the heavier than normal loads.



- 4. **Hydraulic Drive Models:** Since the start-up torque loads are so much higher than normal when the conveyor belting is full, restart at low speed. Do not let the conveyor belt drive roller spin on the belt if conveying belt does not start moving immediately. This will damage the drive roller and conveying belt.
- 5. Once the conveyor has been started, you may resume normal operation.

5.9. Shutdown

When operation has been completed:

- 1. Once the conveyor is clear of grain, lock out the power source.
- 2. Lower the conveyor fully.
- 3. Clean out any remaining grain from the conveyor with a vacuum or sweep out.
- 4. Clean the entire work area.
- 5. Remove anchors, supports, and chocks.

5.10. Clean Out

After using your conveyor, follow the clean out steps below to ensure longer belt life and trouble free operation. Failure to clean out the conveyor can cause build up of product on the belt and roller shafts, causing spillage, roller misalignment, and excess wear/damage to the belt.

⚠ WARNING

Failure to lock out power can cause severe injury.

- 1. Remove any product remaining in the hopper and spout with a vacuum or sweep out.
- 2. Remove debris from shafts, sheaves, and drive belts (as equipped).
- 3. Once the conveyor is empty of all product, check for damage on belt and lacing such as notches or cut outs. Any damage on belt may result in product getting under it creating a build-up. If belt replacement and relacing is necessary, refer to the Maintenance Section.

Important

Ensure the conveyor is free from all product and debris to prevent build-up. Any build-up on belt and shaft becomes a source of spillage and can cause belt misalignment with the possibility of belt edges sustaining damage on the fixed structure. Build-up on the hopper and spout will cause the belt to wear faster due to drag.

4. Once cleaned out, cover intake to prevent moisture from collecting in hopper.

5.11. Conveying Fertilizer

Fertilizer may be conveyed using the conveyor when strictly operated at a reduced capacity and additional care is taken to thoroughly clean the conveyor after operation.

Important

Fertilizer weakens the belt lacing and warranty is void on all lacing used with fertilizer. The belt lacing may need to be replaced more often if you convey fertilizer.

Additional Operating Requirements

To prevent problems that can be caused by conveying fertilizer:

- 1. Do not allow fertilizer to fill over the edge of the belt. This will allow fertilizer to get under the belt and start building up.
- 2. Reduce the flow if the conveyor belt starts to slip. Denser fertilizers will slow the conveyor belt down due to the weight of the product. Too much material will cause the drive roller to slip and lead to additional wear on the roller.
- 3. Do not move fertilizer with your conveyor in humid, wet or rainy conditions. This will cause buildup of fertilizer under your conveyor belt.

Additional Clean-Out Procedures

Proper cleaning will help to ensure longer belt life and prevent excess rust formation.

- 1. Run conveyor empty at full speed for 5-10 minutes after conveying fertilizer. This will help ensure that any product that may be under the belt will be cleaned out and prevent build up.
 - MARNING Do not attempt to manually remove build-up while conveyor is running.
- 2. Run the belt at low idle and inspect for damage on the belt and lacing, such as notches or cut outs caused by mice and normal wear. Any damage on the belt may result in fertilizer getting under the belt creating a

buildup. Consider replacing the conveyor belt if it is in poor condition. If equipped with an electric motor, inspect on the belt return side with the electric motor not running. Turn on the conveyor to expose the belt that was previously in the tube. Turn off the conveyor and inspect the belt on the belt return, along with the lacing.

- 3. Shutdown and lockout power to the conveyor and vacuum or sweep out any remaining fertilizer from the hopper.
- 4. If buildup is evident on or under the belt, remove the buildup to ensure proper operation of the conveyor. When necessary remove fertilizer buildup from under the belt by scraping and washing the belt.

Figure 9. Fertilizer Buildup at Hopper Transition



5.12. Storage

After the season's use, the conveyor should be thoroughly inspected and prepared for storage. Repair or replace any worn or damaged components and perform maintenance as described in the Maintenance Section to prevent any unnecessary downtime at the start of the next season.

To ensure a long, trouble-free life, this procedure should be followed when preparing the unit for storage.

- 1. Remove all residual material from the hopper and the tube.
- 2. Stop the machine with the belt lacing inside the tube. This helps prevent the lacing from rusting.
- 3. Wash the entire conveyor thoroughly using a water hose or pressure washer to remove all dirt, mud, debris, or residue.
- 4. Inspect all moving or rotating parts to see if anything has become entangled in them. Remove any entangled material.
- 5. Touch up all paint nicks and scratches to prevent rusting.
- 6. Check tire pressure and inflate according to tire side-wall recommendations.
- 7. Inspect the conveyor for cracks, tightness of fittings and fasteners, hydraulic hose cracks (if applicable). Have required repairs performed to replace worn or damaged components and complete required annual maintenance.
- 8. Store in an area that is dry, level, free of debris, and away from human activity. Store inside if possible.
- 9. Cover motor with waterproof tarpaulin if stored outside to protect from weather.

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- 10. Chock wheels.
- 11. Support intake on blocks to eliminate prolonged contact with the ground.
- 12. Lower the conveyor to its lowest position for storage.



6. Maintenance



Before continuing, ensure you have completely read and understood this manual's Safety section, in addition to the safety information in the section(s) below.

6.1. Maintenance Safety

MARNING

- Keep components in good condition. Follow the maintenance procedures.
- Ensure the service area is clean, dry, and has sufficient lighting.
- Do not modify any components without written authorization from the manufacturer. Modification can be dangerous and result in serious injuries.
- Shut down and lock out power before maintaining equipment.
- After maintenance is complete, replace all guards, service doors, and/or covers.
- Use only genuine Westfield replacement parts or equivalent.
 Use of unauthorized parts will void warranty. If in doubt, contact Westfield or your local dealer.

Before attempting maintenance of any kind:

- Lower the conveyor fully.
- · Chock wheels.
- Support tube if performing maintenance on the undercarriage assembly.
- If equipped with hydraulics: Before applying pressure to a hydraulic system, make sure all components are tight and that hoses and couplings are in good condition.





6.2. Maintenance Schedule

Proper maintenance habits mean a longer life, better efficiency, and safer operation. Please follow the Maintenance Schedule below. Keep good records of the hours the conveyor has been operated and the maintenance performed.

Maintenance Schedule

Daily:

Section 6.3. - Visually Inspect the Equipment on page 38

Section 6.4. – Lubricate the Equipment on page 39

Monthly:

When Equipped: Section 6.6. – Inspect Hydraulic Hoses and Fittings on page 39

Section 6.7. – Inspect the Hopper Flashing on page 40

Section 6.8. – Check the Roller Bearings on page 40

Section 6.9. – Check the Roller Lagging on page 40

6.12. Inspect Belt Lacing on page 44

Annually:

Hydraulic Drive Models: Section 6.5. – Oil the Chain Coupler on page 39

Section 6.10. - Tension the Conveyor Belt on page 40

Section 6.11. - Align the Conveyor Belt on page 41

Section 6.15. - Clean and Wash the Equipment on page 46

2-3 Years:

6.13. Replace the Belt Lacing on page 44

As Required:

Electric Drive Models: Section 6.16. – Tension the Drive Belts on page 46

Electric Drive Models: Section 6.17. – Align the Drive Belts on page 47

Electric Drive Models: Section 6.18. – Replace the Drive Belts on page 47

Section 6.19. - Repack the Wheel Bearings with Grease on page 47

When Equipped: Section 6.20. – Inspect and Service the Hand Winch and Lift Cable on page 48

6.14. Replace the Conveyor Belt on page 44

6.3. Visually Inspect the Equipment

Check the following during a visual inspection:

- 1. Ensure all guards are in place and in good working order.
- 2. Examine the conveyor for damage or unusual wear.
- 3. Check tightness of bolts/nuts, fasteners, and hardware (re-torque if necessary).
- 4. Be sure all safety decals are in place and are legible.
- 5. Check that the discharge and intake area are free of obstructions.
- 6. Inspect all moving or rotating parts to see if anything has become entangled in them. Remove any entangled material.

WARNING Lock out power before inspecting.



- 7. When equipped: Inspect hydraulic hoses and fittings for leaks and wear. Fix or replace where necessary.
- 8. Examine tires for gashes, uneven wear, or loss of air pressure. Maintain pressure according to tire sidewall recommendations.
- 9. Check all operating, lifting, and transport components. Replace damaged or worn parts before using the conveyor.



10. Inspect the winch cable for fraying, kinking, unwinding, or other possible damage.

6.4. Lubricate the Equipment

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

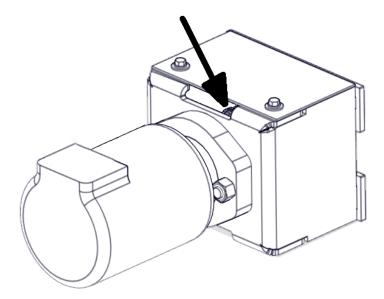
- 1. Wipe the grease fittings with a clean cloth before greasing to avoid injecting dirt and grit.
- 2. Use a hand-held grease gun for all greasing.
- 3. If fittings will not take grease, remove and clean thoroughly.
- 4. Replace fittings if they are broken or will not accept grease.

Use SAE multi-purpose high-temperature grease with extreme pressure (EP) performance. SAE multi-purpose lithium-based grease is also acceptable.

6.5. Oil the Chain Coupler

The chain coupler is located between the hydraulic motor and the conveyor's drive roller.

Figure 10. Chain Coupler Location



6.6. Inspect Hydraulic Hoses and Fittings



When equipped:

- 1. Pressurize the system.
- 2. Using a piece of cardboard or wood, run it along the length of the hose and around all fittings.

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⚠ WARNING

Escaping hydraulic fluid under pressure will cause serious injury if it penetrates the skin surface.

- 3. Replace the hose or tighten/replace the fitting if a leak is found.
- 4. Replace any hose that is badly cut, nicked, abraded, or is separating from the crimped end of the fitting.
- 5. Secure hoses to the machine.

6.7. Inspect the Hopper Flashing

Check hopper flashing for wear and replace any that are worn. Worn flashing will cause hopper leakage.

6.8. Check the Roller Bearings

Check roller bearings for wear. Any rollers making noise, getting hot while running, or that give should be replaced.

6.9. Check the Roller Lagging

Inspect roller lagging to see if it is showing signs of wear.



Operating the conveyor with a damaged roller will result in a damaged conveyor belt.

6.10. Tension the Conveyor Belt

Adjusting your conveyor belt for proper tension helps to ensure trouble-free operation and long belt life.

The conveyor belt only needs to be tight enough to not slip on the drive roller. If the belt is too loose, it will slip on the drive roller making a noticeable sound, slowing the belt down.

The conveyor belt should not be easy to pull from the hopper transition sides, otherwise the belt will require tensioning.



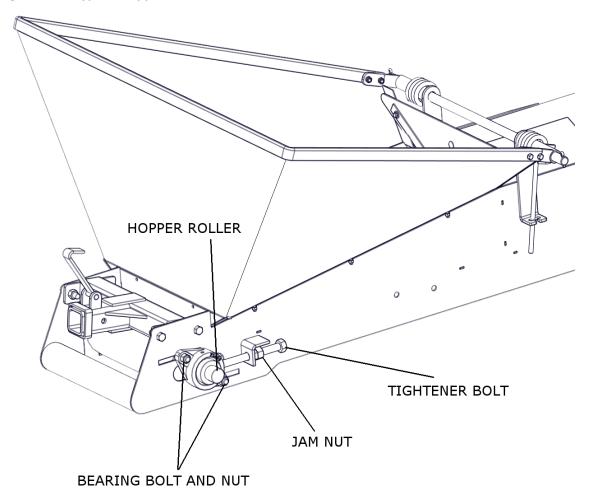
Failure to stop using a conveyor with a slipping belt will damage it and/or the drive roller lagging. In extreme cases, sections of burnt belt will have to be replaced. This type of damage is not covered by warranty.

To set correct conveyor belt tension:

- 1. Loosen the bearing bolts and jam nut (if included) at the hopper roller, see Figure 11 on page 41.
- 2. Tighten the tightener bolts equally, use a tape measure to verify. The conveyor belt should deflect 1-2" when pushed down with a 5 lb force, or be difficult to pull from the sides of hopper transition.
- 3. Tighten the bearing bolts and jam nut (if included).
- 4. Ensure the hopper roller is tensioned equally by using a tape measure to check both sides.
- 5. Check the belt tension by running the conveyor for one minute. If the conveyor belt is not slipping, then proceed to next step; otherwise repeat from step 1.
- 6. After the conveyor belt has been tensioned, check the alignment of all rollers, see Section 6.11. Align the Conveyor Belt on page 41.

7. If the conveyor belt is still loose after tensioning, the belt needs to be shortened or replaced (depending on wear).

Figure 11. Typical Hopper



6.11. Align the Conveyor Belt

⚠ WARNING

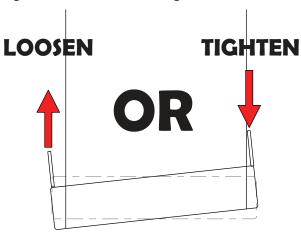
Failure to lock out power can cause severe injury.

Basic Conveyor Belt Alignment:

The conveyor belt will run straight when all of the rollers are straight.

Loosen or tighten the adjustment bolt(s) to align the conveyor belt. Tighten the side the belt has moved toward, or loosen the side the belt has moved away from.

Figure 12. Roller out of Alignment



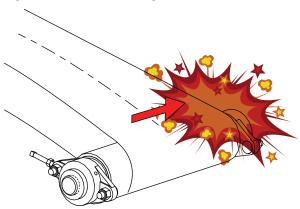
Before Aligning the Belt:

- The conveyor must be empty of all grain.
- Wait until the belt makes a complete revolution before adjusting the rollers. Some belts may have uneven edges, appearing misaligned.

To Align the Belt:

If your belt is tracking off-center, follow the sections and steps in the order following to center it.

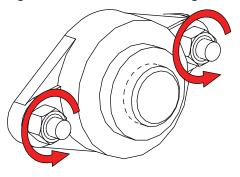
Figure 13. Belt Tracking to One Side



6.11.1 Adjust the Rollers

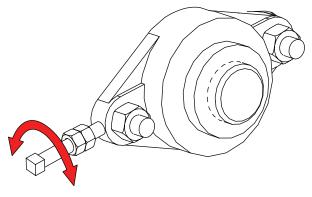
1. Loosen bearing nuts and jam nuts (if equipped).

Figure 14. Loosen the Bearing Nuts



2. Rotate adjustment bolt 1/2 turn.

Figure 15. Rotate the Adjustment Bolt

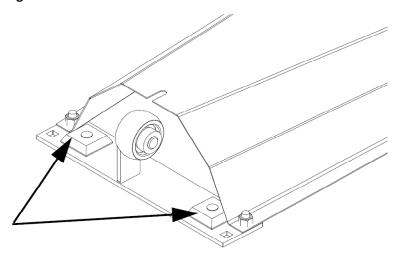


- 3. Restart conveyor and run empty for 1 minute.
- 4. Stop the conveyor and remove ignition key or lock out the power source.
- 5. If the belt has centered, move to next step. If not, repeat Step 2 to Step 4 until the belt is centered.
- 6. Tighten the bearing bolts and jam nut (if equipped).
- 7. Replace any guards that were removed.

6.11.2 Adjust the Belt Return Wear Blocks

1. Adjust the wear blocks by rotating them 90 or 180 degrees. If they are worn down, replace the wear blocks.

Figure 16. Belt Return Wear Blocks



2. Replace the guards if removed.

6.12. Inspect Belt Lacing

Inspect the condition of the belt lacing, if any clips are worn through, replace all lacing.

6.13. Replace the Belt Lacing

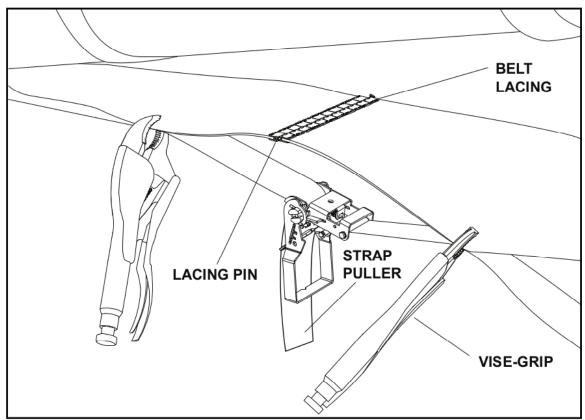
- 1. Rotate the conveyor belt until the lacing is by the hopper or is easily accessible.
- 2. Loosen the conveyor belt and remove the lacing retainer clip and pin.
- 3. Using a square and sharp knife, cut the lacing off right behind the lacing clips. The cut belt MUST have a square end.
- 4. Use a knife to cut Chevron pattern off 1" back from the end of the belt. This ensures that the lacing is centered and fully seated on the belt.
- 5. Use a lacing tool to install new lacing clips. Lacing clips are one clip shorter than the belt width. For example: the lacing for a 15" wide belt is 14 clips. Center the lacing on the belt and install the lacing as per instructions on the lacing tool.
- 6. Reattach the conveyor belt ends together. If required, use a ratchet strap clamped to both ends of the belt to cinch the belting ends together. Figure 17 on page 45.
- 7. Install the lacing pin and crimp the retainer clips onto each end of the lacing pin. Figure 18 on page 46.
- 8. Remove the ratchet strap and tighten the conveyor belt (see "Conveyor Belt Tension").
- 9. Check and set the belt alignment (see "Conveyor Belt Alignment").
- 10. Engage the conveyor drive. Allow the conveyor to run for 30 seconds, then shut down the conveyor and inspect the lacing.

6.14. Replace the Conveyor Belt

1. Rotate the conveyor belt until the lacing is by the hopper or is easily accessible.

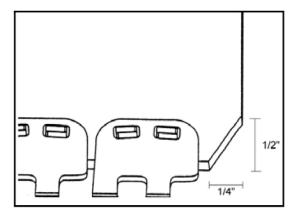
- 2. Move the tension roller to its loosest position.
- 3. Pull all the slack to the lacing area.
- 4. Remove the lacing retainer clip and pin.
- 5. Attach one end of the replacement belt to the belt end being removed, closest to the hopper.
- 6. Pull the old belt out and the new belt will be threaded into place.
- 7. Disconnect the old belt.
- 8. Reattach conveyor belt ends together. If required, use a ratchet strap clamped to both ends of belt to cinch belting ends together. Figure 17 on page 45.

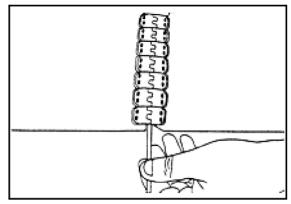
Figure 17. Using the Ratchet Strap



- 9. Install the lacing pin and crimp the retainer clips onto each end of the lacing pin, see Figure 18.
- 10. Remove the ratchet strap and tighten the conveyor belt (see "Tension the Conveyor Belt").
- 11. Check and set the belt alignment (see "Align the Conveyor Belt").
- 12. Engage the conveyor drive. Allow it to run for 30 seconds, then shut down the conveyor and inspect the lacing.

Figure 18. Lacing the Conveyor Belt





6.15. Clean and Wash the Equipment

- 1. Clean out excess grain from all areas of the conveyor.
- 2. Make sure water can drain from the conveyor tube and intake, then wash the tube with a water hose or pressure washer until all dirt, mud, debris, or residue is gone.
- 3. Provide sufficient time for the water to drain from the conveyor.

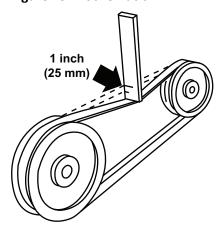
6.16. Tension the Drive Belts



When equipped:

- 1. Remove guard and push on the center of the belt span with a force of approximately 5 lb.
- 2. The belts will deflect approximately 1" (25 mm) when properly tensioned.

Figure 19. Schematic



3. Tighten or loosen the drive belts (or idler pulley when equipped) to achieve the proper tension.

Important

The drive belt should be just tight enough to not slip on the drive pulley when operating. If the belt is too loose, it will slip, possibly causing a squeaking sound and slowing the belt down. If the belt is too tight, it will cause excess wear.

4. Reattach and secure guard. Start system to ensure proper operation.

6.17. Align the Drive Belts



When equipped:

- 1. Lay a straight edge across the pulley faces to check the alignment.
- 2. Use the pulley hub to move the pulley to the required position for alignment.
- 3. Tighten the hub bolts to secure pulley on the drive shaft.
- 4. Check the belt tension.
- 5. Reattach and secure the guard.

6.18. Replace the Drive Belts



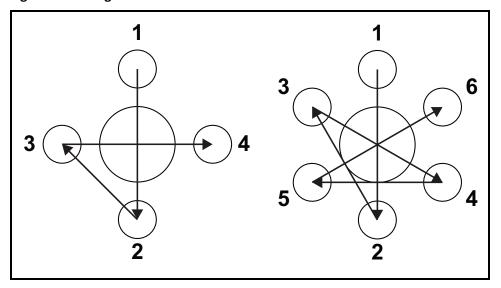
When equipped:

- 1. Fully loosen the drive belts.
- 2. Remove and replace the old belts.
- 3. Tighten the drive belts as described in Belt Tension.
- 4. Align the drive belts as described in Belt Alignment.
- 5. Reattach and secure the guard.

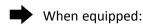
6.19. Repack the Wheel Bearings with Grease

- 1. Block wheels and ensure unit is stable.
- 2. Remove the wheel bolts and the wheels.
- 3. Clean wheel and hub mounting surfaces to ensure there is no rust or debris.
- 4. Remove the wheel bearing and pack with grease. Use SAE multi-purpose high-temperature grease with extreme pressure (EP) performance. SAE multi-purpose lithium-based grease is also acceptable.
- 5. Tighten the wheel bolts (diagonal pattern) with a torque wrench to 100 ft-lb (±10 ft-lb) of torque. Inspect to make sure the wheel is sitting flush with the hub.

Figure 20. Diagonal Pattern for 4-bolt and 6-bolt Tires



6.20. Inspect and Service the Hand Winch and Lift Cable



WARNING Place conveyor in fully lowered position with cable slack.

- 1. Inspect the cable for damage such as fraying, kinking, or unwinding. Replace if damaged (see below).
- 2. Check to make sure cable clamps are secure.
- 3. Oil cable pulleys as needed.
- 4. Keep a film of grease on the gears. Occasionally oil the bushings, drum shaft, and ratchet.
- 5. Do not get oil or grease on brake discs.
- 6. Replace brake discs if less than 1/16" (1.6 mm) thick.
- 7. Check for proper ratchet pawl operation:
 - When cranking in (clockwise) = loud clicking
 - When cranking out (counterclockwise) = no clicking and ratchet pawl fully engaged into gear teeth.

To Replace the Lift Cable:

- 1. Unwind the winch drum until cable is slack and remove all cable clamps.
- 2. Remove the cable.
- 3. Reverse the above steps to install the new cable.

7. Troubleshooting



Before continuing, ensure you have completely read and understood this manual's Safety section, in addition to the safety information in the section(s) below.

⚠ WARNING

Shut down and lock out all power sources before diagnosing any of the causes or attempting any of the solutions below.

In the following section, we have listed some causes and solutions to some of the problems you may encounter.

If you encounter a problem that is difficult to solve, even after having read through this section, please contact your local dealer or distributor. Before you contact them, please have this operation manual and the serial number from your machine ready.

Conveyor

Problem	Cause	Solution			
Low conveying capacity.	Conveyor angle is too high.	Re-position with lower tube angle, see Operation.			
	Incorrect belt speed.	Verify and adjust belt speed to appropriate speed, see Belt Speed in Operation.			
	Conveyor belt slipping.	Tighten conveyor belt, see Conveyor Belt Tension in Maintenance.			
	When equipped: Drive belts slipping.	Tighten belts, see Drive Belt Tension in Maintenance.			
Low capacity for some grains.	Smaller and smoother grains will slide at shallower angles.	Reduce conveyor height, see Conveyor Operating Angles in Operation.			
Conveyor belt slipping.	Conveying belt loose.	Tighten and align belt, see Belt Tension and Belt Alignment in Maintenance.			
	Drive roller lagging worn or damaged.	Replace drive roller lagging, see dealer.			
	When equipped: Drive belts loose.	Tighten belts, see Drive Belt Tension in Maintenance.			
	Belt frozen to tube from operating in high humidity in cold conditions.	Remove conveyor from area of high humidity and warm belt to de-ice.			
Excessive conveyor belt edge fraying.	Belt not aligned.	Align belt, see Belt Alignment in Maintenance.			



Conveyor belt loose.	Belt stretches over time.	Re-tension belt, see Belt Tension in Maintenance.			
		If belt is fully tensioned, you may need to shorten belt and re-lace, see Belt Relacing in Maintenance.			
Grain leaking from conveyor hopper.	Belt not aligned (centered).	Align belt, see Belt Alignment in Maintenance.			
	Flashing installed incorrectly or worn.	Inspect flashing for wear and replace if required.			
	Hopper cloth worn or damaged.	Replace damaged hopper cloth.			
Hopper cloth collapsing under grain. Misaligned or broken sp		Check spring installation and repair as required.			
	Pivot shafts improperly installed.	On some machines, switching pivot shafts left to right will increase hopper tension.			
Grain leaking from conveyor discharge between belt and tube. Belt not aligned (centered).		Align belt, see Belt Alignment in Maintenance.			
Grain leaking from conveyor discharge between hood and belt.	Belt speed is too fast, hood plugging.	Decrease belt speed, see Belt Speed in Operation.			
U-clamps or brackets sliding on tube.	U-clamps or brackets not properly crimped to tube.	Contact dealer or Westfield to correct positioning.			

Frame/Undercarriage with Hand Winch

Problem	Cause	Solution		
The conveyor will not raise or lower.	The conveyor is already at its maximum or minimum height.	If at maximum height, lower the conveyor		
	Obstruction in the slide.	Clear the obstruction.		
	Faulty cable. Replace cable.			
	Faulty winch.	Consult your local dealer.		



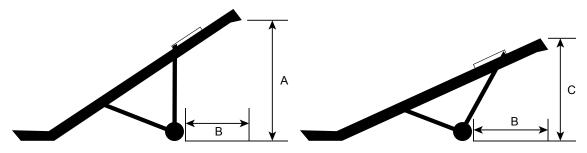
	The bottom or top of the conveyor is obstructed.	Clear the obstruction.		
The conveyor will not stay elevated.	Faulty winch.	Lower conveyor to transport position and repair or replace winch.		
	Faulty cable. Lower conveyor to transport post repair or replace cable.			
The auger makes noise while lifting	Frame parts loose and move while lifting.	Replace damaged components and retension frame fasteners.		

Electric Drive Models Only

Problem	Cause	Solution		
Drive making noise.	Slipping drive belt.	Tighten belts, see Drive Belt Tension in Maintenance.		
	Hot shaft, pulley or bearing.	Overheated components indicate a failed bearing that must be repaired.		
	Broken drive roller.	Replace damaged component.		



8. Specifications



Model	Belt Length	Weight lbs	Up-Operation		Down - Transport		Width		HP HYD.
			A (ft)	B (ft)	C (ft)	B (ft)	(ft)	HP Elec	(in³)
WCX 1335 — Electric	72'	995	17	12.5	10.5	13	10.5	5	N/A
WCX 1335 — Hydraulic	72'	995	17	14	10	15	10.5	N/A	4.5*

^{*}Hydraulic motor supplied with hydraulic drive kit. H Series motor (4.5in³) requires 12 — 16 gal/min.



9. Westfield Conveyor Warranty

Westfield Industries Ltd. warrants products of its manufacture against defects in materials or workmanship under normal and reasonable use. The warranty period for the Product shall be one year from delivery of the Product to the Buyer where the Product is used in a normal farm operation. The warranty period for the Product shall be 90 days from delivery of the Product to the Buyer where the Product is used in a commercial operation. No warranty is given where the Product was used to convey canola. In the event that any part incorporated into the Product is manufactured and sold to the Seller by a third party vendor, such part is only warranted to the extent of the warranty given by that third party.

Our obligation under this warranty is limited to repairing, replacing, or refunding defective part or parts which shall be returned to a distributor or a dealer of our Company, or to our factory, with transportation charges prepaid. This warranty does not obligate Westfield Industries Ltd. to bear the cost of labor in replacing defective parts. Any defects must be reported to the Company before the end of the warranty period.

This warranty shall not apply to equipment which has been altered, improperly assembled, improperly maintained, or improperly repaired so as to adversely affect its performance. Westfield Industries Ltd. makes no express warranty of any character with respect to parts not of its manufacture.

The foregoing is in lieu of all other warranties, expressed or implied, including any warranties that extend beyond the description of the product, and the IMPLIED WARRANTY of MERCHANTABILITY is expressly excluded.





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