Read this manual before using product. Failure to follow instructions and safety precautions can result in serious injury, death, or property damage. Keep manual for future reference.
This product has been designed and constructed according to general engineering standards. Other local regulations may apply and must be followed by the operator. We strongly recommend that all personnel associated with this equipment be trained in the correct operational and safety procedures required for this product. Periodic reviews of this manual with all employees should be standard practice. For your convenience, we include this sign-off sheet so you can record your periodic reviews.

<table>
<thead>
<tr>
<th>Date</th>
<th>Employee Signature</th>
<th>Employer Signature</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>

a. Standards include organizations such as the American Society of Agricultural and Biological Engineers, American National Standards Institute, Canadian Standards Association, International Organization for Standardization, and/or others.
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1. Introduction

Thank you for purchasing a Westfield grain auger. Before using, please read this manual and understand the various features of the equipment and precautions for efficient and safe operation.

Keep this manual handy for frequent reference and to review with new personnel. A sign-off form is supplied on the inside front cover to record your safety reviews. Call your local distributor or dealer if you need assistance or additional information.

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 machine.

Serial Number:

Serial number is located at the top of the tube.
1. INTRODUCTION

WESTFIELD - 4" UTILITY GRAIN AUGERS
MODELS: UB411, UX405, UX410
2. Safety First

The Safety Alert symbol to the left identifies important safety messages on the product and in the manual. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instructions in the safety messages.

Why is SAFETY important to you?

Three big reasons:

- Accidents disable and kill.
- Accidents cost.
- Accidents can be avoided.

**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.

The Safety Alert symbol means: “ATTENTION, BE ALERT! YOUR SAFETY IS INVOLVED”.

<table>
<thead>
<tr>
<th><strong>DANGER</strong></th>
<th>Indicates an imminently hazardous situation that, if not avoided, will result in serious injury or death.</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>WARNING</strong></th>
<th>Indicates a hazardous situation that, if not avoided, could result in serious injury or death.</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>CAUTION</strong></th>
<th>Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>NOTICE</strong></th>
<th>Indicates a potentially hazardous situation that, if not avoided, may result in property damage.</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
<td></td>
</tr>
</tbody>
</table>

2.1. GENERAL SAFETY

Important: This general safety section includes instructions that apply to all safety practices. Any instructions specific to a certain safety practice (e.g., assembly safety), can be found in the appropriate section. Always read the complete instructional sections and not just these safety summaries before doing anything with the equipment.

YOU are responsible for the SAFE use and maintenance of your equipment. YOU must ensure that you and anyone else who is going to work around the equipment 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.

- It is the equipment owner and the operator’s responsibility to read and understand ALL safety instructions, safety decals, and manuals and follow them before assembling, operating, or maintaining the equipment. All accidents can be avoided.
- Equipment owners must give instructions and review the information initially and annually with all personnel before allowing them to operate this product. Untrained users/operators expose themselves and bystanders to possible serious injury or death.
- Use this equipment for its intended purposes only.
- Do not modify the equipment in any way. Unauthorized modification may impair the function and/or safety, and could affect the life of the equipment. Any modification to the equipment voids the warranty.
- Do not allow children, spectators, or bystanders within the work area.
- Have a first-aid kit available for use should the need arise, and know how to use it.
- Provide a fire extinguisher for use in case of an accident. Store in a highly visible and accessible place.
- Wear appropriate protective gear. This list includes, but is not limited to:
  - a hard hat
  - gloves
  - protective shoes with slip-resistant soles
  - protective goggles
  - hearing protection
  - dust mask or respirator
- For Powered Equipment: before servicing, adjusting, or repairing powered equipment, unplug, place all controls in neutral or off position, stop the engine or motor, remove ignition key or lock out power source, and wait for all moving parts to stop.
2.2. ASSEMBLY SAFETY

- Read through the instructions to get to know the sub-assemblies and hardware that make up the equipment.
- Do not take chances with safety. The components are large, heavy, and can be hard to handle. Always use the proper tools, stands, jacks, and hoists for the job.
- Read and understand the assembly instructions for the product before proceeding to assemble the product.
- Always have two or more people assembling the equipment. Because of the weight, do not attempt assembly alone.

2.3. OPERATION SAFETY

- Have another person nearby who can shut down the auger in case of accident. Always work with a second person around augers.
- Do not operate with any of the safety guards removed.
- Keep body, hair, and clothing away from moving parts. Stay away from intake during operation.
- Augers are not insulated. Keep away from electrical lines. Electrocution can occur without direct contact.
- Inspect auger supports on a daily basis.
- Support auger securely to prevent upending or upsetting.

2.4. MAINTENANCE SAFETY

- Shut down and lock out all power before attempting maintenance of any kind. If applicable, disconnect hydraulic hoses on units with hydraulic drives.
- After maintenance is complete, replace and secure all safety guards and safety devices, and if applicable, service doors and cleanout covers.
- Use only genuine Westfield replacement parts or equivalent. Replacement parts such as intake guards, pulley guards, PTO driveline shields, winches, and lift cables must meet ASAE standards or serious injury may result. Use of unauthorized parts will void warranty. If in doubt, contact Westfield or your Westfield dealer. Do not modify any auger components.
2.5. HYDRAULIC SAFETY

- Always place all hydraulic controls in neutral and relieve system pressure before disconnecting or working on hydraulic system.
- Keep all components in the hydraulic system tightly secured and in good condition and clean.
- Replace any worn, cut, abraded, flattened, or crimped hoses.
- Do not attempt any makeshift repairs to the hydraulic fittings or hoses with tape, clamps, or concrete. The hydraulic system operates under extremely high pressure; such repairs will fail suddenly and create a hazardous and unsafe condition.
- Before moving a hydraulic cylinder, ensure that the attached component is safely secured.

**WARNING**

Hydraulic fluid can cause serious injury if it penetrates the skin. If it does, see a doctor immediately.
- Relieve pressure before disconnecting hydraulic line.
- Wear proper hand and eye protection and use wood or cardboard, not hands, when searching for leaks.

2.6. ELECTRIC MOTOR SAFETY

- To prevent serious injury or death, only qualified personnel should service electrical components.
- Keep electrical components in good repair.
- Ground electric motor before using.
- Inspect drive belts before using. Replace if frayed or damaged.

2.7. SAFETY DECAL LOCATIONS

- Keep safety decals clean and legible at all times.
- Replace safety decals that are missing or have become illegible. See decal locations that follow.
- Replaced parts must display the same decal(s) as the original part.
- Safety decals are available from your distributor, dealer, or factory.
2.7.1. Decal Installation/Replacement

1. Decal area must be clean and dry, with a temperature above 50°F (10°C). Use a solvent to remove all traces of oil from manufacturing before applying decal.
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 decal backing paper.

2.7.2. Decal Locations

Replicas of the safety decals that are attached to the equipment are shown in the figure(s) that follow. Proper safety procedures require 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 equipment damage.

*Westfield reserves the right to update safety decals without notice. Safety decals may not be exactly as shown.*
2. SAFETY FIRST
2.7. SAFETY DECAL LOCATIONS

Figure 2.1 Safety Decals

- **WARNING**
  - MISSING GUARD HAZARD
  - To prevent serious injury or death, shut off power and reattach guard before operating machine.

- **DANGER**
  - ROTATING PARTS HAZARD
  - To prevent serious injury or death:
    - Keep body, hair, and clothing away from rotating pulleys, belts, chains, and sprockets.
    - Keep all guards in place and in good working order.
    - Lock out power before removing guard.

- **WARNING**
  - ELECTROCUTION HAZARD
  - To prevent death or serious injury:
    - When installing, keep equipment away from overhead power lines and decrease.
    - Do not install equipment near overhead power lines and decrease.

- **DANGER**
  - PLACED ON SPOUT BEHIND GUARD

- **DANGER**
  - PLACED ON GUARD.
3. Assembly

Warning: Before continuing, ensure you have read and understand the relevant information in the safety section. Safety information is provided to help prevent serious injury, death, or property damage.

Before starting assembly of your new auger, please read the following instructions carefully and familiarize yourself with all the sub-assemblies and hardware making up the auger. Arrange all parts for easy access. Carry out assembly in a large open area with a level surface.

3.1. TUBE / FLIGHT EXTENSIONS

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Warning Icon] Do not drop. Damage to equipment or serious personal injury will result.</td>
</tr>
</tbody>
</table>

1. When extending the basic upper section, align upper and lower tube sections on a flat surface.
2. Connect the flighting by screwing the lower flight into the threaded pipe on upper flight until flight ends butt together and flighting spiral matches up (Figure 3.1).
3. Slide tube sections together and connect with 2 half-tube connector bands. Secure with 5/16”x 3/4” bolts and washer-locknuts (Figure 3.2.).

![Figure 3.1]

![Figure 3.2]
3.2. INTAKE ASSEMBLY

Attach the guarded intake assembly to lower end of auger tube with tube clamp and four 5/16” x 3/4” bolts and washer-locknuts.

3.3. HOPPER ASSEMBLY (OPTIONAL)

See Figure 3.4.

1. Screw the stub shaft into threaded pipe on lower end of auger flight.
2. Slide hopper over lower flighting, insert stub shaft into bearing at back of hopper and secure to auger tube with four 5/16” x 3/4” bolts and washer locknuts.

3.4. HEAD DRIVE ASSEMBLY

See Figure 3.5.

1. Remove dirt from upper end of flight shaft and insert Woodruff key.
2. Slide pulley onto flight shaft with hub facing the auger. Washer should already be in place. Tighten set screws.
3. Place motor mount over top end of auger and secure with four 5/16” x 3/4” bolts and washer locknuts.
4. Place pulley guard over pulley and secure with two self-tapping screws.
5. After mounting the electric motor, align the two pulleys with a straight edge and adjust the belt tension.
   • The correct operating tension is the lowest tension at which the belts will not slip under peak load conditions.
   • Recommended pulley size for a 1750 rpm motor is 2”.

<table>
<thead>
<tr>
<th>Table 3.2 Pulley Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Recommended pulley size</strong></td>
</tr>
<tr>
<td>for 1750 RPM motors</td>
</tr>
<tr>
<td>Flight Speed</td>
</tr>
<tr>
<td>Auger Pulley</td>
</tr>
<tr>
<td>Belt(s)</td>
</tr>
</tbody>
</table>

When using an electric motor:

• The motor and controls should be installed by a qualified electrician in accordance with all local and national codes.
• Incorporate a magnetic starter to protect the motor.
• The motor must have a manual reset button.
• Locate reset and starter controls 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.
• A main power disconnect switch capable of being locked (in the off position only) must be provided.

<table>
<thead>
<tr>
<th>Table 3.1. Horsepower Requirementsa</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>4”</strong></td>
</tr>
<tr>
<td>ELEC. HP</td>
</tr>
<tr>
<td>11’</td>
</tr>
<tr>
<td>16’ – 21’</td>
</tr>
<tr>
<td>26’ – 31’</td>
</tr>
<tr>
<td>36’ – 41’</td>
</tr>
<tr>
<td>46’ – 51’</td>
</tr>
</tbody>
</table>

a. Approximate horsepower requirements under normal conditions. When augering full tube of high moisture grain, additional horsepower will be needed.
3.5. FEED CONTROL ASSEMBLY (OPTIONAL)

See Figure 3.6.

1. Loosely attach tube clamp to auger tube with two 5/16" x 3/4" bolts and washer-locknuts. Do not tighten at this time.

2. Thread the control handle through tube clamp as shown, then place feed control slide beneath the intake guard.

3. Seat tube clamp against stop on control handle and lock into place with the t-bolt on the clamp.

4. Slide feed control assembly down until lower end is 1/2" past lower end of auger tube. Tighten the tube clamp.

3.6. SWIVEL MOUNT ASSEMBLY (OPTIONAL)

See Figure 3.7.

1. Attach the half tube clamps with two 5/16" x 3/4" bolts and washer-locknuts.

2. Attach the swivel bracket to bottom tube clamp with one 5/16" x 3/4" bolt and locknut.

3. Screw the t-bolt into box clamp, then attach box clamp to swivel bracket with one 5/16" x 3/4" bolt and locknut.
3.7. SITE INSTALLATION PROCEDURES

**DANGER**

Keep equipment away from overhead power lines and obstructions. Machine is not insulated and electrocution may occur without direct contact.

Failure to keep away will result in serious injury or death.

Site installation procedures for any Utility Auger will vary depending on auger length, location, and intended use. Because of these variables, the following instructions are meant to be used as a guide only. It is the installer’s responsibility to ensure that the auger is properly braced and/or supported before operating, with the primary concern being on safety. As a general rule, we suggest the following:

1. Check that all bolts are tightened as per instructions.
2. Ensure that all safety devices are in place and secure.
3. Use a safe lifting device such as a front-end loader or forklift to raise and position the auger, ensuring that the entire area in line of travel is clear of any obstructions or electrical wires.

Once auger is in position, we recommend the following:

1. Where possible, secure both the intake and discharge ends of the auger to prevent upending or upsetting from factors such as high wind, vibration, or grain weight shift.
2. If auger is used in a free standing position, it must be braced and/or supported to prevent upending or upsetting from factors such as high wind, vibration, or grain weight shift.
3. Ensure that On/Off switches are conveniently located and marked in case of emergency.
3. ASSEMBLY
3.7. SITE INSTALLATION PROCEDURES
WESTFIELD - 4" UTILITY GRAIN AUGERS
MODELS: UB411, UX405, UX410
4. Operation & Maintenance

**Warning:** Before continuing, ensure you have read and understand the relevant information in the safety section. Safety information is provided to help prevent serious injury, death, or property damage.

Operators must observe safety procedures at all times and follow the pre-operational checklist before each start-up.

### 4.1. PRE-OPERATIONAL CHECKLIST

Before operating auger each time, the operator must confirm the following:

- All fasteners are secure as per assembly instructions.
- Drive belt(s) are not frayed or damaged.
- Drive belt(s) are properly adjusted and aligned.
- Tube alignment is reasonably straight.
- Intake area and discharge spout are free of obstructions.
- Proper maintenance has been performed.
- Inspect auger supports frequently.

### 4.2. AUGER DRIVE AND LOCKOUT PROCEDURE

<table>
<thead>
<tr>
<th>Drive Type</th>
<th>Before Operation</th>
<th>Lockout</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric Motor</td>
<td>Before starting motor, ensure</td>
<td>The electric motor should be equipped with a main power disconnect switch capable of being locked in the off-position only. The switch should be in the locked position during shutdown or whenever maintenance is performed on the auger.</td>
</tr>
<tr>
<td></td>
<td>• motor is properly grounded</td>
<td>• If reset is required, disconnect all power <strong>before</strong> resetting motor.</td>
</tr>
<tr>
<td></td>
<td>• pulley shields are in place and secure</td>
<td></td>
</tr>
</tbody>
</table>
4.3. OPERATING PROCEDURE

4.3.1. START-UP AND BREAK-IN

1. Complete the checklist at the beginning of this chapter. If everything is satisfactory, prepare for a 30-minute operation at half speed.
2. Ensure that placement of your Utility Auger is correct and secure.
3. Start electric motor, then feed grain to auger.

**Important:** When starting auger for the first time, be prepared for an emergency shutdown in case of excessive vibration or noise. Note that auger may run rough until tube is polished.
4. Upon completion of initial run, decrease grain input until auger is empty, then stop.
5. Lock out motor and conduct a complete inspection of auger following the checklist at the beginning of this chapter.

After the initial start-up and inspection, the auger should be shut down and inspected at least three times during the first 10 hours of operation.

Keep operation of empty auger to a minimum, as this results in excessive wear.

Once auger is broken in, the checklist should be a part of the daily routine before operating auger.

4.3.2. OPERATING WITH A FULL LOAD

1. When operating the auger, always work with a second person in a position to monitor the operation and initiate a shutdown in case of emergency.
2. Monitor the auger during operation for abnormal noises or vibrations.
3. Shut off all power before making adjustments, servicing, or clearing the machine.
4.3.3. SHUTDOWN

**NORMAL SHUTDOWN:**

1. Near the end of a load, decrease the flow of grain until auger is clear.
2. Once auger is clear, stop motor and lockout power (Section 4.2.).

**Note:** *Remember that the flighting rpm on augers equipped with electric motors is not adjustable except with a change of pulley size.*

**EMERGENCY RESTART:**

1. If the auger is shut down for an emergency, lock out motor before correcting problem.
   - If the problem is plugging, clear as much of the grain as possible using a piece of wood, vacuum cleaner or other tool (not your hands) before restarting auger. **Do not reach in and use your hands.** See “Auger Drive and Lockout Procedure” on page 19.

**NOTICE**

Starting the auger under full load may result in damage to unit. Be sure there is no blockage.
4.4. MAINTENANCE

Proper maintenance on the auger means a longer life for the machine, better efficiency and safer operation. Please follow the guidelines below.

4.4.1. GENERAL MAINTENANCE PROCEDURES

<table>
<thead>
<tr>
<th>Area</th>
<th>Maintenance Procedure</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>While auger is in use, observe the operation checklist on page 19.</td>
<td>Daily</td>
</tr>
<tr>
<td>General</td>
<td>If for any reason a part becomes damaged, replace it immediately. If possible, lower auger to replace parts.</td>
<td>Regularly</td>
</tr>
<tr>
<td>Drive Belt</td>
<td>Check and replace if frayed or damaged. Ensure tension is correct under load (correct tension is the lowest at which the belts will not slip under peak load conditions)</td>
<td>Frequently</td>
</tr>
<tr>
<td>Auger Supports</td>
<td>Inspect (cracked welds, proper configuration of supports, bent/damaged pieces, etc.)</td>
<td>Frequently</td>
</tr>
<tr>
<td>Motor</td>
<td>Protect motor from weather by covering.</td>
<td>During off season or when not in use.</td>
</tr>
</tbody>
</table>

**Important:** Use only genuine Westfield replacement parts or equivalent. Replacement parts such as intake guards, pulley guards must meet ASAE standards or serious injury may result. Use of unauthorized parts will void warranty. If in doubt, contact Westfield or your Westfield dealer. Do not modify any auger components.
## 5. Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excessive noise or vibration.</td>
<td>Flighting peeled back due to plugging.</td>
<td>Inspect spout end of auger for flight condition. Remove and replace flight sections as necessary.</td>
</tr>
<tr>
<td><em>Remember to follow proper break-in procedures — auger may run rough until tube is polished. If noise is extreme from outset or continuous after several loads of grain are fed, continue with troubleshooting below</em></td>
<td>Bent flighting sections.</td>
<td>Support auger and remove all flight sections. Check for straightness of flighting and flighting stubs by rolling across flat concrete section. Straighten flighting or replace as necessary. Take care not to bend flighting when reinstalling.</td>
</tr>
<tr>
<td>Obstruction in tube.</td>
<td></td>
<td>Visually inspect for cloth or trash wrapped around flighting, or buildup of gum from oily crops such as flax or canola.</td>
</tr>
<tr>
<td>Drive belt(s) jumping off pulley(s).</td>
<td>Motor misaligned.</td>
<td>Ensure drive and driven pulleys are correctly aligned.</td>
</tr>
<tr>
<td></td>
<td>Belt(s) mismatched.</td>
<td>Check Assembly Section for correct belt size(s) and, when more than one, only replace in pairs.</td>
</tr>
<tr>
<td></td>
<td>Belt tension inadequate.</td>
<td>Maintain correct tension as per assembly section.</td>
</tr>
<tr>
<td></td>
<td>Using a lower horsepower motor than recommended.</td>
<td>See Assembly Section for recommended motor sizes.</td>
</tr>
<tr>
<td>Premature wear on auger tubes.</td>
<td>Auger being run at low capacity or empty for extended period of time.</td>
<td>Frequently occurs on farms using grain wagons. Auger should not be left unattended when filling bins.</td>
</tr>
<tr>
<td></td>
<td>Bent flighting.</td>
<td>When flighting becomes razor-thin at intake, replacement is critical. Since flight material is double thickness at welded lap joints, high spots on flight occur and can accelerate spot tube wear.</td>
</tr>
<tr>
<td></td>
<td>Flighting allowed to wear beyond normal point of replacement.</td>
<td></td>
</tr>
</tbody>
</table>
WARRANTY

Westfield Industries Ltd. warrants products of its manufacture against defects in materials or workmanship under normal and reasonable use for a period of one year after date of delivery to the original purchaser.

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 one year 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.

WESTFIELD INDUSTRIES LTD.
ROSENORT, MANITOBA
CANADA
R0G 1W0