

# **WESTFIELD<sup>®</sup>**

## **GRAIN AUGERS**

# **UTILITY**

## **ASSEMBLY & OPERATIONS MANUAL**

**UT-04-04**



# Introduction

Congratulations. As the new owner of a WESTFIELD Utility auger, you will be working with equipment especially designed to complement and improve your farming operation. Before assembling, installing, or using this equipment, we recommend that you read this manual and familiarize yourself with the various features of the machine and the necessary precautions for an efficient

and safe operation. In addition, we suggest that anyone using this auger be required as a matter of record to be familiar with all safety precautions. A sign-off form is supplied on the inside front cover for your convenience and permanent records.

Thank you.

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# 1. Safety First

Safety first. Everyone knows about it. Most people practice it. Sadly, a few choose to ignore it. Safety should be a habit, something you practice every time you work with machinery. Safe working habits prevent needless accidents and needless injuries or deaths.

Whether you are the owner, a supervisor, or an operator, it is your responsibility to know the operational requirements, the safety precautions, and the potential

hazards of utility grain augers. Furthermore, you must ensure that anyone working with or around the augers be familiar with them. Failure to read this manual and/or noncompliance with correct safety procedures is a misuse of equipment. Remember, a lack of knowledge serves only to endanger yourself and those around you.

**TAKE THE TIME - BE ALERT - BE SAFE**

**Watch for this symbol. It identifies potential hazards to health or personal safety. It points out safety precautions. It means: ATTENTION - be alert. Your safety is involved.**

**Failure to read this auger manual before operating the auger is a misuse of the equipment and a needless risk of life and limb.**



BE ALERT



BE ALERT



BE ALERT

## 1.1 GENERAL SAFETY PRECAUTIONS

Utility auger safety requires familiarity with your machine, the observance of proper precautions, and good common sense. Always remember to:

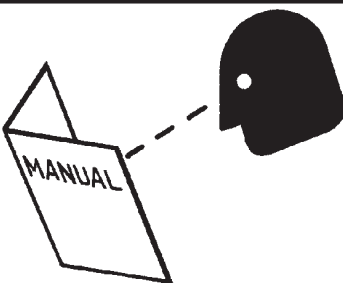
- Keep children and untrained people away from auger work area. The area around an auger is not safe for untrained personnel, and especially not safe for children.
- Have another person nearby who can shut down the auger in case of accident. It is good practice to always work with a second person around augers.
- Support auger securely to prevent upending or upsetting.
- Inspect auger supports on a daily basis.
- Inspect the drive belts on a daily basis before using auger. Replace if frayed or damaged.
- Do not operate auger with **any** safety shield removed.
- Augers are not insulated. Keep away from electrical lines. **Electrocution can occur without direct contact.**
- Ensure auger is empty before moving.

- Remember to ground motor before operating auger.
- Maintain a hazard zone of approximately 20 feet around the work area during operations.
- Keep body, hair, and clothing away from moving parts.
- Keep away from auger intake during operation.
- Do not **grab or touch** drive belts during operation for any reason.
- Wear hearing protection when operating auger.
- Shut off and lock out all power to auger before servicing, cleaning, adjusting, or attempting maintenance of any kind.
- After maintenance is completed, replace and secure all safety shields and safety devices.
- Keep decals clean. Replace any decal that is damaged or not clearly visible.

**NOTE:** *Our new decals are shown in this manual. If your auger does not have these decals, they are available upon request. Please specify which decals you need.*

## 1.2 SAFETY DECALS

**WARNING**



**DO NOT OPERATE THIS AUGER unless**

1. You are trained to operate it safely.
2. You have read and understand the operator's manual.
3. You know and follow all safe operating procedures and work rules.
4. Children and untrained personnel are removed from work area.

**FAILURE TO FOLLOW SAFETY INSTRUCTIONS IN MANUAL WILL SUBJECT OPERATOR AND OTHERS TO SERIOUS INJURY OR DEATH.**

MADE IN CANADA 17096

**DANGER**



**ROTATING FLIGHTING HAZARD**

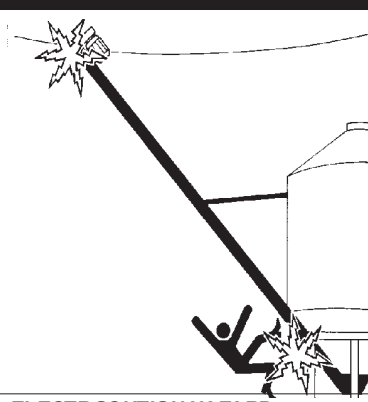
Keep away from auger intake.

Keep intake shield in place and in good working order. Do not modify.

**FAILURE TO HEED WILL RESULT IN SERIOUS INJURY OR DEATH.**

MADE IN CANADA 17098

**DANGER**



**ELECTROCUTION HAZARD**

This auger is not insulated.

Keep auger away from overhead power lines and devices.

Electrocution can occur without direct contact.

Fully lower auger before moving.

**FAILURE TO KEEP AWAY WILL RESULT IN SERIOUS INJURY OR DEATH.**


MADE IN CANADA 17161

**CAUTION**

1. Read and understand operator's manual before assembling or operating this auger.
2. Do not remove or modify any safety shield or device. Keep in good working order.
3. Clear work area of CHILDREN and untrained personnel before operating or moving auger.
4. Keep body, hair and clothing away from auger intake and all moving parts.
5. Stop auger and lock out power to adjust, service or clean.
6. Fully lower auger to move or service. Use safety chain to transport.
7. Stay clear of power lines when positioning, installing or moving auger. Once positioned, chock all wheels.
8. Trained personnel must be in attendance when auger is in operation.
9. Disassembling certain components will allow auger to collapse. Support auger tube to prevent this.
10. Electric motors must be grounded. Disconnect power before resetting overheads.
11. If the manual, safety shields, or decals are missing or damaged, contact factory or your dealer for replacements.

MADE IN CANADA 17115

**DANGER**



**ROTATING PULLEY**

Keep body, hair and clothing away from rotating pulleys and belts.

Keep all shields in place and in good working order.

**FAILURE TO DO SO WILL RESULT IN SERIOUS INJURY OR DEATH.**

MADE IN CANADA 17101

## **2. Assembly**

(Contact Westfield Industries Ltd. for details)

# 3. Operations / Maintenance

Efficient operation of the utility auger requires that operators follow a checklist before each start-up and demands that safety procedures be observed at all times. To do otherwise is endangering life and limb and is a misuse of equipment.

**CAUTION**

**KEEP CHILDREN AND ALL UN-AUTHORIZED PERSONNEL CLEAR OF WORK AREA.**

**DO NOT OPERATE AUGER WITH ANY SAFETY SHIELD REMOVED.**

**ALWAYS HAVE ANOTHER PERSON NEARBY TO SHUT DOWN AUGER IN CASE OF ACCIDENT.**

**KEEP BODY, HAIR, AND CLOTHING AWAY FROM ANY MOVING PARTS.**

**SHUT DOWN AND LOCK OUT ALL POWER BEFORE SERVICING, CLEANING, OR ADJUSTING.**

**REPLACE ALL SHIELDS.**



## 3.1 PRE-OPERATIONAL CHECKLIST

Before operating auger for the initial time, and each time thereafter, the operator must follow a prescribed checklist. The checklist should confirm the following:

- All fasteners are secured as per assembly instructions.
- All safety shields are in place and secure.
- Drive belts are not frayed or damaged.
- Drive belts are properly adjusted.
- Tube alignment is reasonably straight.
- Discharge spout and intake area are free of obstructions.
- Proper maintenance has been performed.
- Operators are aware of all safety precautions.
- Inspect auger supports frequently.

## 3.2 AUGER DRIVE AND LOCKOUT

Correct operation of the Utility Auger requires preinspection of the drive system, operator knowledge on how to shut down the system, and a general monitoring of the system during operation.

### Electric Motor:

Before starting motor, ensure that:

1. The motor is properly grounded.
2. The pulley shield is in place and secure.
3. The work area is clear of unauthorized personnel.

### Lockout

1. 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 (off) position during shutdown or whenever maintenance is performed on the auger.
2. If reset is required, disconnect all power before resetting motor.

### 3.3 START UP AND BREAK IN

Start up and break in procedures for the Utility Auger are as follows:

1. Ensure that you have completed the checklist at the beginning of Section 3.1.
2. Ensure that portable grain hopper (if used) is correctly positioned and secured to auger with both straps.



**NOTE:** A hazard zone around the work site of approximately 20 feet should be maintained for reasons of safety during operations.

3. Start motor and feed grain immediately. If auger functions normally, continue checking for a period of 30 minutes.

#### **IMPORTANT**

**WHEN STARTING AUGER FOR THE FIRST TIME, BE PREPARED FOR AN EMERGENCY SHUTDOWN IN CASE OF EXCESSIVE VIBRATION OR NOISE. NOTE THAT THE AUGER MAY RUN ROUGH UNTIL TUBE IS POLISHED.**

4. Upon completion of initial run, decrease grain input until auger is empty and stop.
5. Lock out motor and conduct a complete inspection of auger following the checklist in Section 3.1.
6. After the initial start up and inspection, the auger should be shutdown and inspected at least three times during the first 10 hours of operation.
7. Keep operation of empty auger to a minimum, as this results in excessive wear.
8. Once auger is broken in, the checklist should be a part of the daily routine before operating auger.

### 3.4 FULL LOAD PROCEDURES

For normal auger operations, the following procedures and safety precautions are strongly recommended.

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 the actual operation for abnormal noises or vibrations.
3. Observe the work area restrictions. If unauthorized personnel enter the hazard zone, shutdown auger and clear the area before restarting.
4. Shut off all power before making adjustments, servicing, or clearing the machine.

### 3.5 NORMAL / EMERGENCY SHUTDOWN

The steps for a **normal shutdown** are as follows:

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 (see Section 3.2).

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

In the event of an intermittent or **emergency shutdown**, restart as follows:

1. If the auger is full of grain, ensure that there is no blockage before restarting auger.

#### **IMPORTANT**


**STARTING THE AUGER UNDER FULL LOAD MAY RESULT IN DAMAGE TO UNIT. BE SURE THERE IS NO BLOCKAGE.**

2. If the auger is shut down for an emergency, lockout motor before correcting problem. If the problem is clogging, clear as much of the grain as possible using a piece of wood, vacuum cleaner or other tool (not your hands) before restarting unit. (See Section 3.2 for lockout procedures.)

### 3.6 MAINTENANCE PROCEDURES

Proper maintenance habits on the auger mean a longer life for the machine, and a more efficient and safe operation.

**CAUTION**




**KEEP CHILDREN AWAY WHEN PERFORMING MAINTENANCE.**

**BEFORE PERFORMING MAINTENANCE, ENSURE THAT POWER IS SHUT DOWN AND LOCKED OUT.**

**REPLACE ALL SHIELDS.**

BE ALERT

**CAUTION**



**WATCH FOR OVERHEAD ELECTRICAL WIRES. ELECTRO-CUTION CAN OCCUR WITHOUT DIRECT CONTACT.**

**FAILURE TO HEED THIS WARNING WILL RESULT IN SERIOUS INJURY OR DEATH.**

BE ALERT

We recommend the following steps for the general maintenance of this auger.

1. Observe the checklist in Section 3.1 on a daily basis when auger is in use.
2. If for any reason a part becomes damaged, replace it immediately. If possible, lower auger to replace parts.

**NOTE:** *To replace a damaged part, refer to Assembly instructions in Section 2.*

3. **Intake Bushing:** If bushing is used on your auger, lubricate daily.
4. **Drive Belts:** Check and replace if frayed or damaged. Ensure that tension is correct under load. Keep belts aligned.

**NOTE:** *The correct operating tension is the lowest tension at which the belts will not slip under peak load conditions.*

5. **Truss Cables:** If truss cables are used, adjust as needed to keep tube reasonably straight.

6. **Auger Supports:** Inspect frequently.
7. **Motor Cover:** During the off season, or when not in use, cover the motor to protect from weather.
8. Use only genuine WESTFIELD replacement parts or equivalent. Replacement parts such as intake shields, pulley shields, 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.

**TABLE II HORSE POWER REQUIREMENTS**

Length	6"	7"	8"	10"	13"
<b>16'-21'</b>	1½-2	2-3	3	3-5	10
<b>26'-31'</b>	3	3-5	5	5-7½	15
<b>36'-41'</b>	3-5	5-7½	5-7½	7½-10	20
<b>46'-51'</b>	5	7½	7½-10	10-15	N/A
<b>56'-61'</b>	7½	7½-10	10	15-20	N/A

Approximate electric motor horsepower requirements under normal conditions. When augering full tube of high moisture grain, additional horsepower will be needed.



## 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.

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