

WESTFIELD[®]

GRAIN AUGERS

W130 - 51/61/71' PTO-SD

**ASSEMBLY &
OPERATIONS
MANUAL**

W130-04-04



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.



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1. Introduction

Congratulations. As the new owner of a WESTFIELD grain auger, you will be working with equipment especially designed to complement and improve your farming operation. Before using this auger, 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.

2. 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 portable 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

2.1 OPERATIONAL SAFETY

Operational safety means using common sense and knowing and observing proper precautions. Always remember to:

- Keep children and untrained people away from auger work area (see **Figure No. 1**). 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.
- Check the lift cables before each use and replace if frayed or damaged.
- Make certain lift cables are properly seated in cable sheaves and cable clamps are secure.
- Check for breaks or leaks in the hydraulic system. Repair if damaged.
- Ensure that auger is empty before raising or lowering.
- Remember that the hydraulic lift is faster than a conventional hand crank. Extra caution must be taken to clear area of personnel before raising or lowering.
- Augers are not insulated. Keep away from electrical lines. Electrocutation can occur without direct contact.
- Wear hearing protection when operating auger.
- Do not operate with **any** safety shield removed.
- Never use a PTO driveline without a rotating shield in good working order. Also ensure shields on auger and tractor are in place.
- Be certain the PTO driveline is securely attached to the gearbox shaft and to the tractor before operating.
- Before starting tractor, be certain that power to the PTO and to the hydraulic system is in the off position.
- Keep body, hair and clothing away from moving parts.
- Operate the auger on level ground free of debris. If ground is uneven, anchor the auger to prevent tipping or upending.
- Do not disconnect hydraulic coupler when hydraulic system is pressurized.
- Lower auger at completion of operation, or when not in use.
- Support the discharge end and/or anchor the intake end before operating to prevent upending.
- Keep away from the auger intake during operation.
- Shut off and lock out all power to auger before servicing, cleaning or adjusting.

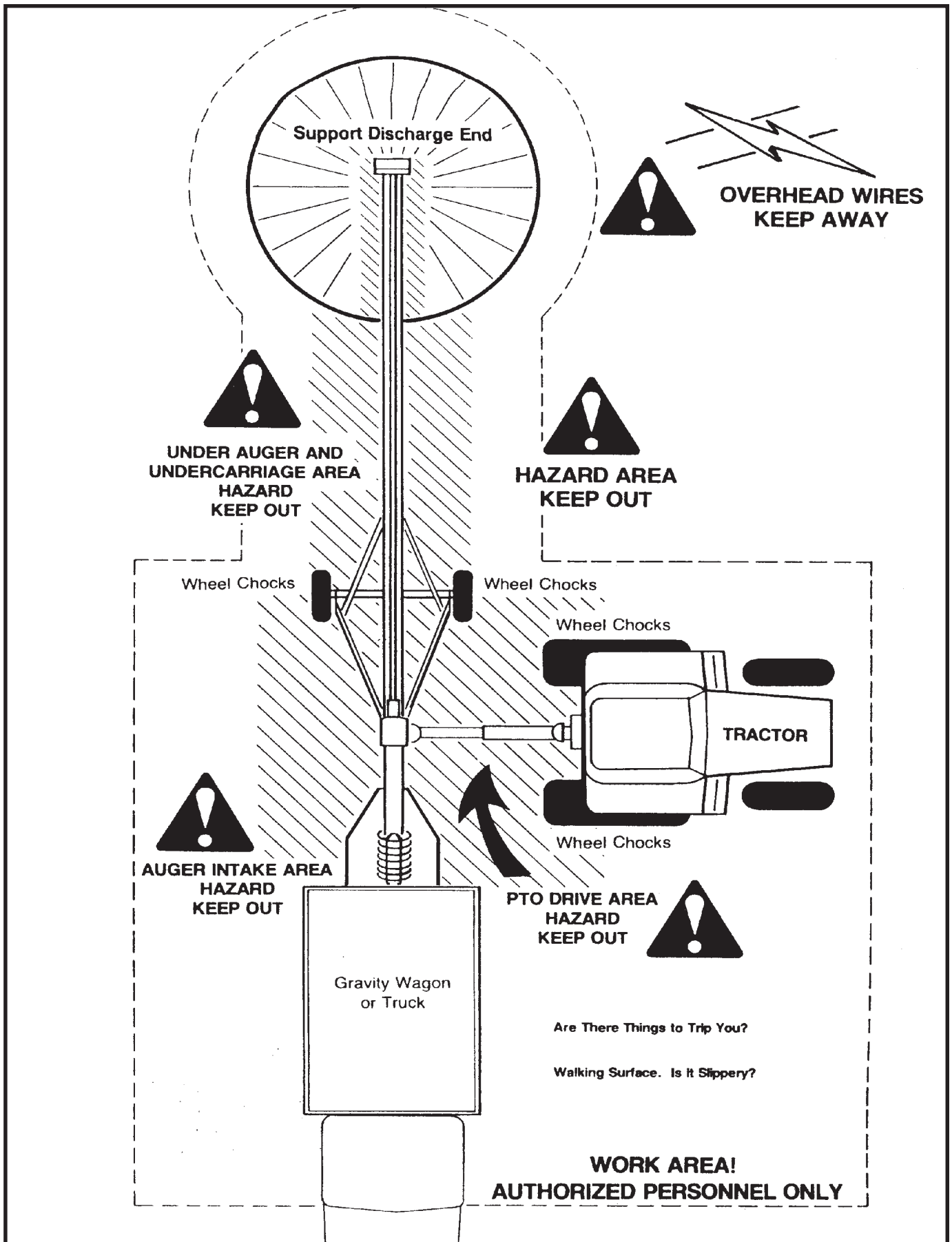


Figure No. 1

2.2 TRANSPORT AND PLACEMENT SAFETY

The approach to transport and placement safety is no different from that of operational safety. Follow the basic rules of good sense and know the limitations of your machinery. While a few of the precautions are the same, they bear repeating. Remember to:

- Keep children and unauthorized personnel away from the hazard area surrounding the auger.
- Transport auger in the full down position with slight tension on the cable.
- Check the lift cable before each use and replace it if frayed or damaged. Also check cable clamps.
- Make certain that the hitch pin is in place and the safety chain is properly attached. Use a type of hitch pin that will not permit auger to separate from towing vehicle.
- Always attach an SMV (Slow Moving Vehicle) sign before transporting auger.
- Before moving auger, make sure the area around the auger is clear of obstructions and/or unauthorized personnel (see **Figure No. 2**).
- Before moving auger, check and double check for overhead obstructions and/or electrical wires. Electrocutation can occur without direct contact.
- Disconnect PTO driveline from tractor before moving auger or tractor.
- Secure the PTO driveline in transport saddle before moving auger.
- Equip the auger with necessary lights for transportation where required by law.
- Do not transport auger faster than 15 MPH (24 km/h).
- Do not transport auger on a slope greater than 20 degrees.
- Use extreme caution in turning and cornering.
- Do not raise or lower auger until hazard area is clear.
- Do not permit anyone to stand on or beneath auger when raising or lowering.
- Do not use auger as a hoist.
- Wheels must be free to move when raising or lowering auger.

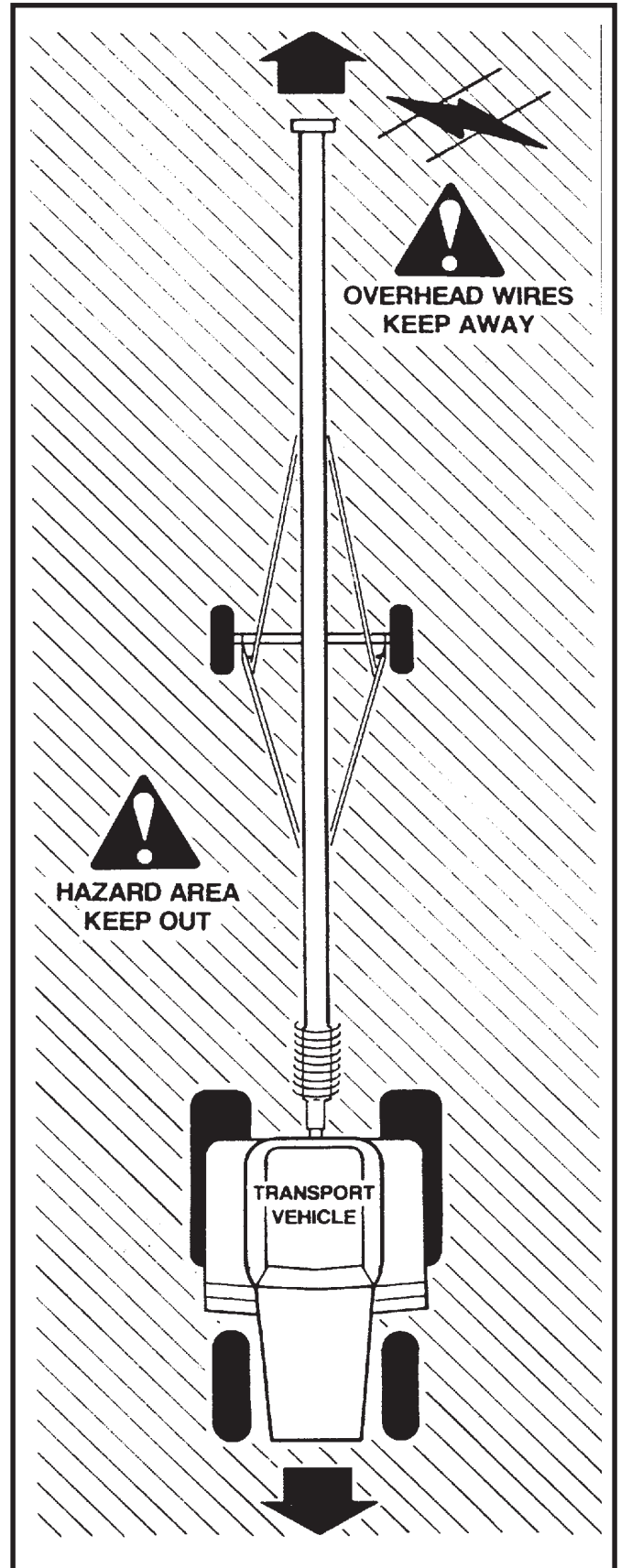


Figure No. 2

2.3 HYDRAULIC SAFETY

Hydraulic safety precautions are few in number, but because of the inherent dangers created by the pressures within the system, these precautions are of great importance. Always remember to:

- Keep children and unauthorized personnel away.
- Clean connections before attaching to tractor.
- Inspect hydraulic hoses and fittings for damage on a daily basis. Repair if necessary.
- Fluid leaks in the hydraulic lift cylinders or hoses will allow the auger to lower inadvertently. Repair all leaks and breaks immediately. The required operating pressure is approximately 1800 PSI (12411 kPa). Rupture could cause damage and/or personal injury.
- Do not disconnect hydraulic coupler when system is under pressure. Relieve all pressure and then disconnect.
- Wear proper hand and face protection when searching for hydraulic leaks. Escaping fluid under pressure can penetrate the skin, causing infection and/or toxic reaction. In case of accident, see a doctor immediately.

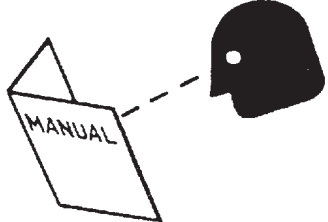
2.4 MAINTENANCE SAFETY

When performing maintenance on the W130 auger, understand and observe the following precautions:

- Shut down and lock out all power before attempting maintenance of any kind. If lock out is impossible, disconnect PTO driveline from tractor.
- Support auger tube before attempting maintenance on the undercarriage. Auger should be in full down position for maintenance.
- 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.
- 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.

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.*

! 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.

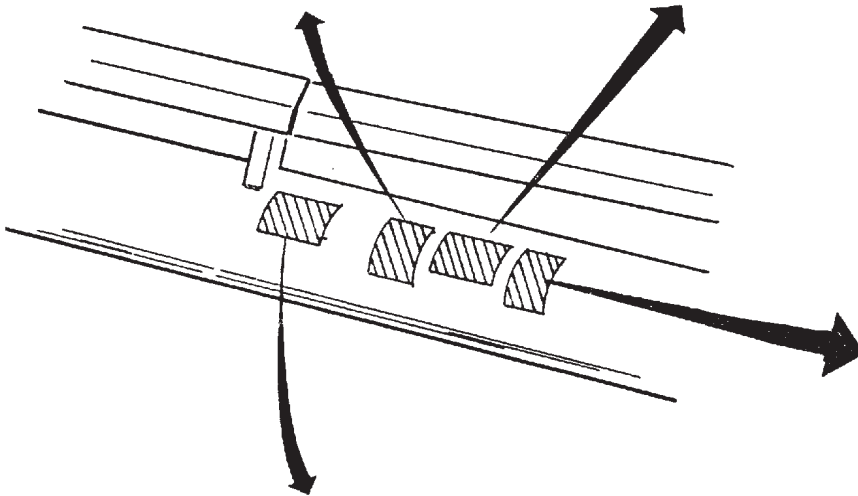
FAILURE TO FOLLOW SAFETY INSTRUCTIONS IN MANUAL WILL SUBJECT OPERATOR AND OTHERS TO SERIOUS INJURY OR DEATH.

MADE IN CANADA 17096

! CAUTION

1. Read and understand operator's manual before assembling or operating 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 lockout 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 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 overloads.
11. If the manual, safety shields, or decals are missing or damaged, contact factory or your dealer for replacements.

MADE IN CANADA 17113



IMPORTANT !

WHEELS MUST BE FREE TO MOVE WHEN RAISING OR LOWERING AUGER

MADE IN CANADA 19960

! DANGER



KEEP CHILDREN AWAY.

This auger is not a toy.

The work area is not a playground.

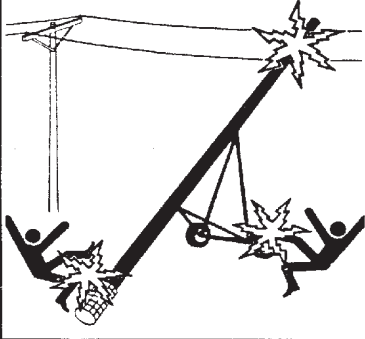
Do not allow children to play on or near this auger at any time.

FAILURE TO HEED WILL CAUSE SERIOUS INJURY OR DEATH.

MADE IN CANADA 17095

Figure No. 3

⚠ 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.

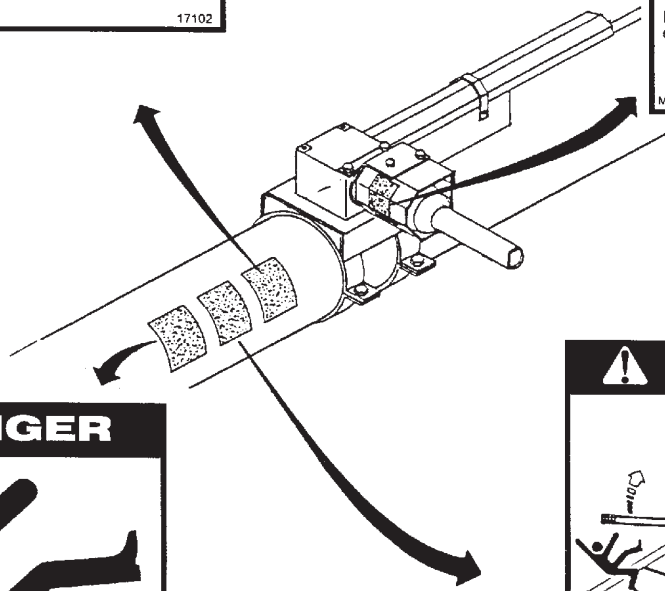
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⚠ DANGER



ROTATING PTO DRIVELINE HAZARD
 Keep your body, hair, clothing and others away from rotating PTO driveline.
 Do not operate auger unless all driveline, tractor and equipment shields are in place and in good working order.
 Make certain the driveline shields turn freely on driveline.
 Make certain the driveline is securely attached at both ends.
 Do not exceed operating speed of 540 RPM.
 Keep u-joints angles small and equal. Do not exceed maximum recommended length.
FAILURE TO HEED WILL RESULT IN SERIOUS INJURY OR DEATH.

MADE IN CANADA 17103



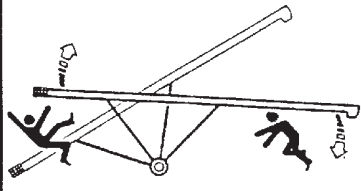
⚠ DANGER



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



UPENDING HAZARD
 Anchor intake end and/or support discharge end to prevent upending.
 Auger intake must always have downward weight. Do not release until attached to tow bar or resting on ground.
 Do not raise auger intake above tow bar height.
 Use a tow vehicle to move auger.
 Empty auger and lower fully before moving.
FAILURE TO HEED WILL RESULT IN SERIOUS INJURY OR DEATH.

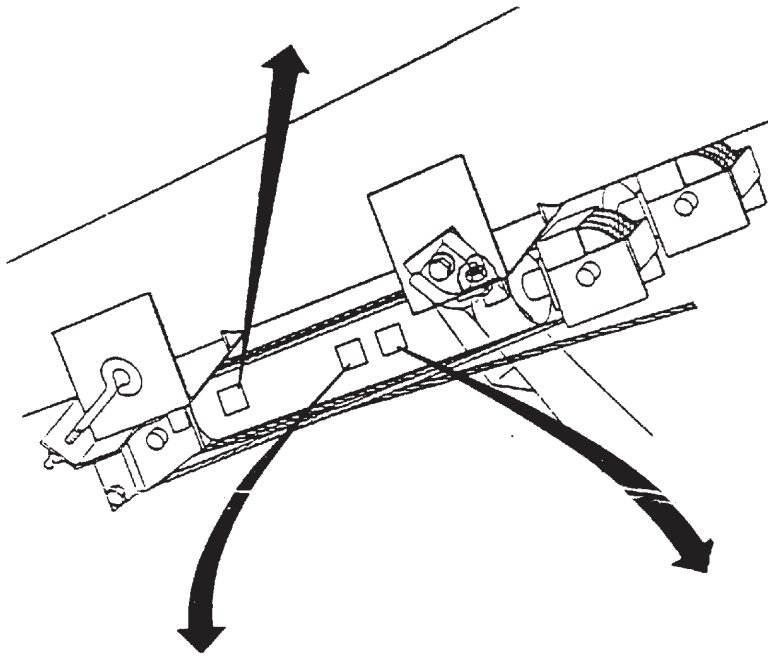
MADE IN CANADA 17097

Figure No. 4

⚠ WARNING

Inspect lift cable frequently.
If damaged, replace immediately.
Make certain cable clamps are
securely tightened.
**FAILURE TO HEED WILL CAUSE
SERIOUS INJURY OR DEATH.**

MADE IN CANADA 19960



⚠ WARNING

ESCAPING HYDRAULIC OIL
under pressure will cause serious
injury if it penetrates the skin. See a
doctor immediately if injured.

Relieve pressure before disconnecting
hydraulic line.

Use cardboard as a backstop when
searching for leaks. Wear proper hand
and eye protection.

Inspect frequently. Keep in good
repair.

**FAILURE TO HEED WILL
CAUSE SERIOUS INJURY**

MADE IN CANADA 17100

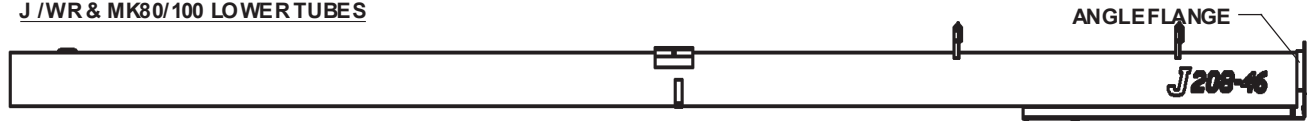
⚠ WARNING

ROTATING CABLE SHEAVES
Keep away from rotating cable
sheaves and cables.
Do not touch or grab cable while
auger is being raised or lowered.
**FAILURE TO HEED WILL
RESULT IN SERIOUS INJURY.**

MADE IN CANADA 17105

Figure No. 5

J /WR & MK80/100 LOWER TUBES



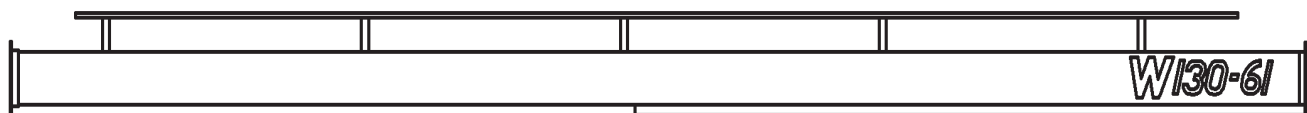
J /WR & MK80/100 UPPER TUBES (& W130-41)



** EXCEPTIONS: 26' & 31' MODELS

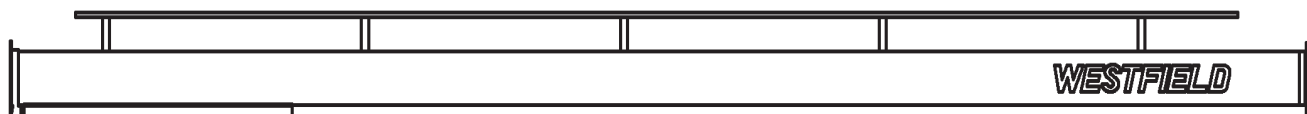


W130, MK130 & MK130^{PLUS} LOWER MIDDLE TUBES



W130, MK130 & MK130^{PLUS} UPPER MIDDLE TUBES

SPOUT →



** EXCEPTION: W130 X 51'

SPOUT →

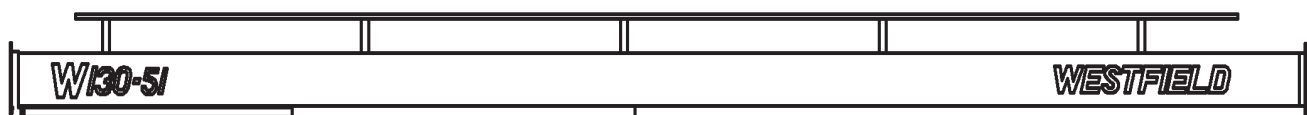


Figure No. 5A

WESTFIELD DECALS INSTALLATION

IMPORTANT

DO NOT COVER ANY EXISTING SAFETY OR INSTRUCTION DECALS WITH THE MODEL DECALS.

For most decal applications, follow the diagrams as seen in Figure 5A. Apply decals to both sides of auger tube.

Lower Tubes: Decals should be located just below the angle flange, centered on the tube. Decals should be easily visible from the ground when auger assembly is complete. (For 36' augers, the model decal can be located in the center of the lower tube)

Upper Tubes: "Westfield" decals should be placed in the center of the upper tube, where they are easily visible from the ground when auger assembly is complete. For the W130, MK130 & MK130^{PLUS} series, "Westfield" decal is located at the top end of the upper middle tube.

NOTE: To Apply the Westfield decals to your auger, you will need plastic squeegee, air release tool (small pin), 1/2" masking tape, sponge, soap and water.

1. Prepare surface by cleaning thoroughly with soap and water. Surface must be clean and free of dirt, grime, rust and oil. To clean oily surface, wipe with clean cloth and solvent cleaner or isopropyl alcohol.
2. Position the decal on the tube and apply masking tape along the top, creating a gate hinge. Figure No. 5B demonstrates.
3. Remove backing paper from decal 6" from the top and use the squeegee to adhere decal to the tube, as seen in Figure No. 5C. Start at the top center of the decal and work your way outward both left and right using overlapping strokes.
4. As you work your way down the decal, peel back the backing paper 6" at a time. Repeat Step 3 until the entire decal has been applied to the tube. See Figure No. 5D as an example.
5. Once the entire decal has been properly adhered to the tube, remove tape hinge from front of decal. Remove the front application tape at a sharp 180° angle.
6. Inspect the entire decal for air pockets; if found, remove them by punching a tiny hole with a pin and then squeegee the surface flat.
7. As a final process, squeegee the corners and edges of the decal to ensure proper adhesion and to prevent premature peeling.

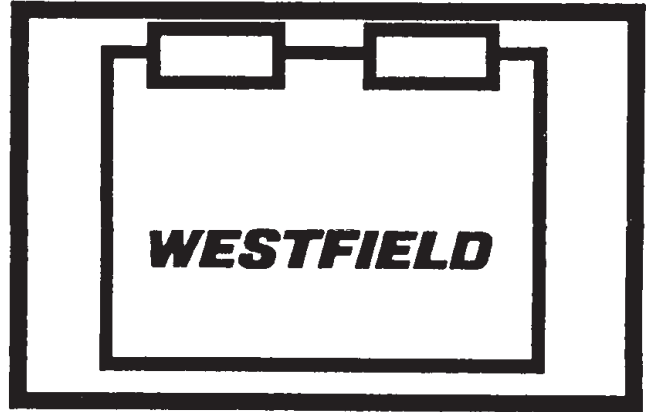


Figure No. 5B



Figure No. 5C



Figure No. 5D

3. Assembly

(Contact Westfield Industries Ltd. for details)


4. Transport & Placement

When transporting the PTO-SD auger, we strongly recommend that all safety precautions be observed, that a proper towing vehicle be used and that transport procedures as detailed below be followed.

CAUTION

KEEP CHILDREN AND ALL UN-AUTHORIZED PERSONNEL AWAY.

ATTACH A SMV SIGN BEFORE TRANSPORTING AUGER.



DO NOT TOW FASTER THAN 15 MPH (24 km/h).

USE EXTREME CAUTION IN TURNING AND CORNERING.

DO NOT TOW AUGER ON SLOPES GREATER THAN 20 DEGREES.

DO NOT ALLOW PERSONS TO STAND BENEATH OR RIDE ON THE AUGER WHEN IT IS BEING TRANSPORTED. (See Figure No. 2.)

4.1 PRE-TRANSPORT CHECKLIST

Before transporting auger, ensure that:

1. Auger is in full down position. The roller trackshoe should be seated against the upper trackstop with slight tension on the lift cable.
2. **Make certain** that the hitch pin and safety chain are in place and secure. The safety chain should be threaded through handle on the lower tube and wrapped around auger tube before attaching to the towing vehicle.

NOTE: We recommend that a type of hitch pin be used that will not allow auger to separate from towing vehicle (see **Figure No. 32**).

3. Ensure that PTO driveline is in transport saddle and secured.

NOTE: If auger wheels are partially or fully buried in snow or grain, do not attempt to move auger until snow or grain has been cleared away from auger wheels. Failure to heed may cause damage to auger and/or serious injury.


4.2 TRANSPORT PROCEDURE

When transporting auger, remember to:

1. Ensure that all unauthorized personnel are clear of transport zone (see **Figure No. 2**).
2. Be alert to overhead obstructions and electrical wires and devices. The PTO-SD augers have minimum clearances of 13'0" to 15'6" (3.96m to 4.72m) in normal transport position.

DANGER

ELECTROCUTION HAZARD



THIS MACHINE IS NOT INSULATED. KEEP AWAY FROM OVERHEAD WIRES AND DEVICES. ELECTROCUTION CAN OCCUR WITHOUT DIRECT CONTACT.

FAILURE TO MAINTAIN PROPER CLEARANCE WILL RESULT IN SERIOUS INJURY OR DEATH.

3. Observe all regulations concerning marking, towing and maximum width.
4. Equip the auger with necessary lights where required by law.
5. Do not transport auger at speeds greater than 15 MPH (24 km/h).
6. Do not transport auger on slopes greater than 20 degrees.
7. Use extreme caution in turning and cornering when towing auger.

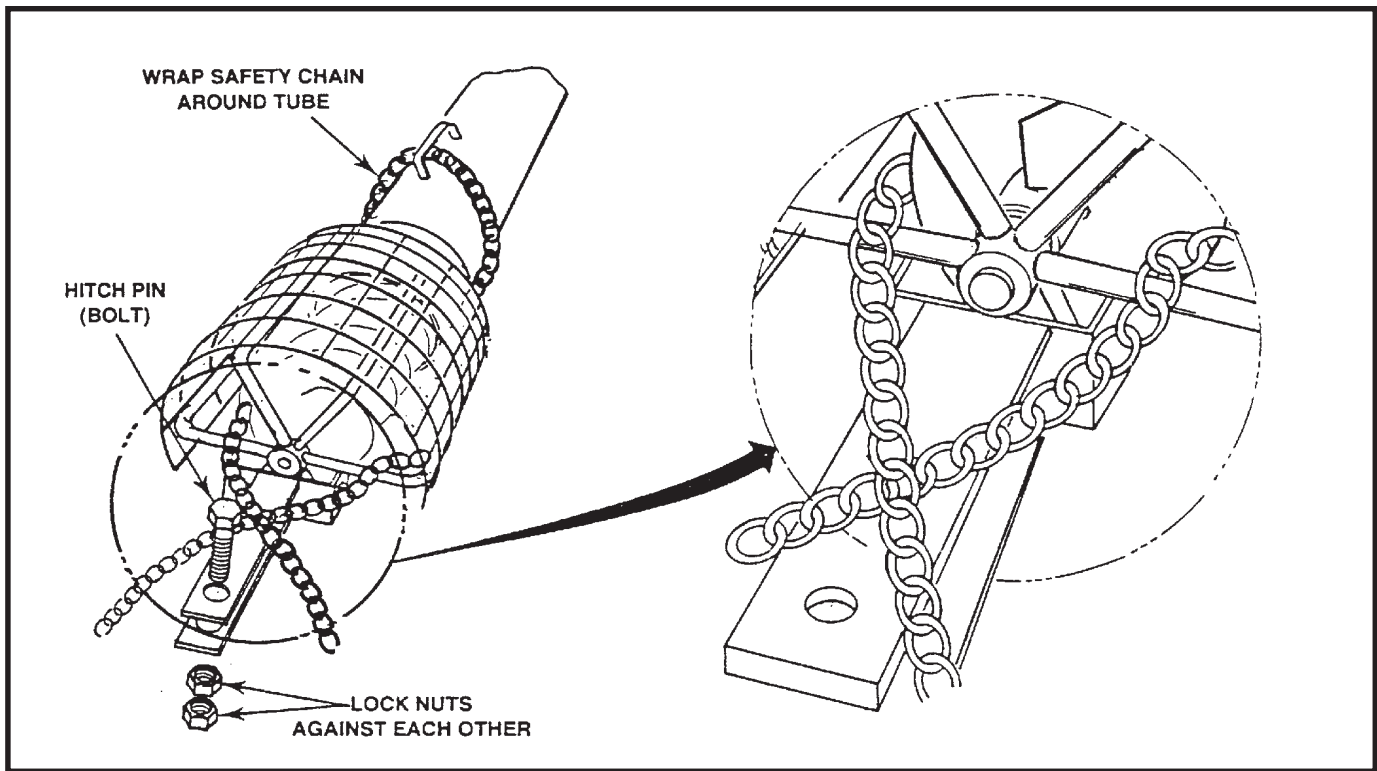


Figure No. 32

4.3 PRE-PLACEMENT PROCEDURE

Before moving auger into position for operation, ensure that all safety precautions and placement procedures are observed.

IMPORTANT

BEFORE RAISING OR PLACEMENT OF AUGER, ENSURE THAT GROUND IS REASONABLY LEVEL. AUGER COULD TOPPLE IF GROUND IS TOO UN-EVEN, DAMAGING EQUIPMENT AND/OR CAUSING PERSONAL INJURY.

Before positioning auger, the following steps are recommended:

1. Ensure that towing hitch is in place and secure.

NOTE: *We recommend that a type of hitch pin be used that will not allow auger to separate from towing vehicle (see Figure No. 32).*

2. If the auger must be raised before positioning, make sure that entire area in line of travel, both on the ground and over head, is clear of any obstructions or electrical wires.

IMPORTANT

WHEELS MUST BE FREE TO MOVE WHEN RAISING OR LOWERING AUGER.

CAUTION

KEEP CHILDREN AND ALL UN-AUTHORIZED PERSONNEL AWAY.

ENSURE AREA IS CLEAR BEFORE RAISING OR LOWERING AUGER.



BE ALERT

DO NOT ATTEMPT TO MOVE AUGER BY HAND.

ALWAYS CHOCK WHEELS AFTER POSITIONING AUGER FOR OPERATION.

DO NOT USE AUGER AS A HOIST TO RAISE ANY OBJECT REGARDLESS OF WEIGHT. THIS WILL CREATE AN UNSAFE CONDITION AND WILL VOID WARRANTY.

CAUTION



BE ALERT

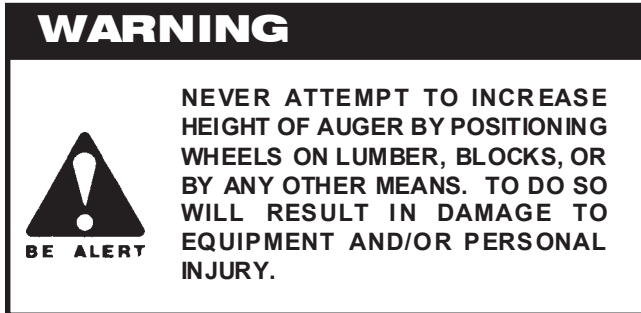
WATCH FOR OVERHEAD ELECTRICAL WIRES. ELECTROCUTION CAN OCCUR WITHOUT DIRECT CONTACT.

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

4.4 PLACEMENT PROCEDURE

NOTE: *If auger wheels are partially or fully buried in snow or grain, do not attempt to move auger until snow or grain has been cleared away from auger wheels. Failure to heed may cause damage to auger and/or serious injury.*

NOTE: *The PTO driveline is a non-separable type. Remove from tractor and secure in transport saddle on auger before moving tractor away from auger.*



1. Move auger into working position slowly, making sure that all persons are clear of the work area (see **Figure No. 1**). Do not unhitch auger and attempt to move by hand.
2. Once auger is in position, chock wheels on both sides. Also, chock wheels on the tractor or apply the park brake.

IMPORTANT

WHEN RELEASING AUGER FROM THE TOWING VEHICLE, TEST THE INTAKE END FOR DOWNWARD WEIGHT. DO NOT RAISE THE INTAKE END ABOVE DRAWBAR HEIGHT. WHEN THE INTAKE END IS ELEVATED TOO HIGH WITH AUGER IN RAISED POSITION, THE BALANCE OF WEIGHT QUICKLY TRANSFERS TO THE DISCHARGE END, CAUSING THE AUGER TO UPEND.

3. When operating auger in the raised position, rest the discharge end on bin roof or tie down to bin to prevent upending or wind upsetting auger. When operating auger in a free-standing position, anchor the intake end.

IMPORTANT

ANCHORING AND/OR SUPPORT OF AUGER DURING OPERATIONS IS NECESSARY. WHEN LOWER HALF OF AUGER EMPTIES OF GRAIN, THE WEIGHT BALANCE TRANSFERS TO UPPER END OF AUGER, WHICH CAN CAUSE UPENDING.

4. See Operation Section 6 for correct lowering procedure.

5. Operation


Efficient operation of the PTO-SD auger requires that operators follow a checklist before each start-up and demands that safety precautions 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.

DONOT 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.

BE ALERT WEAR HEARING PROTECTION DURING OPERATION.

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

DO NOT USE AUGER AS A HOIST TO RAISE ANY OBJECT REGARDLESS OF WEIGHT. THIS WILL CREATE AN UNSAFE CONDITION AND WILL VOID WARRANTY.

5.1 PRE-OPERATION 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.
- Oil level in gearbox is adequate.

IMPORTANT

ADD EP90 LUBE OIL TO THE GEARBOX BEFORE OPERATING AUGER. FAILURE TO DO SO WILL VOID WARRANTY. DO NOT OVERFILL. FILL HALF FULL ONLY.

- PTO driveline is connected and secure.
- PTO driveline shields rotate freely.
- Lift cables are not frayed or damaged.
- Cable clamps are secured.
- Tube alignment is reasonably straight.
- Auger and tractor wheels are chocked.
- Discharge spout and intake area are free of obstructions.
- Proper maintenance has been performed.
- Operators are aware of all safety precautions.

5.2 AUGER DRIVE AND LOCKOUT

Correct operation of the PTO-SD auger requires pre-inspection of the drive system, operator knowledge on how to shut down the system, and a general monitoring of the system during operation.

PTO Driveline

1. Ensure that the PTO driveline is securely attached to the tractor and gearbox.
2. Do not use PTO driveline without a rotating shield in good working order.
3. Do not exceed the maximum operating length of 92" (2337 mm) of the PTO driveline or the maximum angularity of 15 degrees.
4. Be sure that the PTO drive on the tractor is in the off position before starting tractor.
5. Stay clear of PTO hazard area (see **Figure No. 1**).

Lockout and/or Shutdown

1. Shut off engine.
2. Remove ignition key from tractor.
3. If step 2 is impossible, remove PTO driveline from tractor.

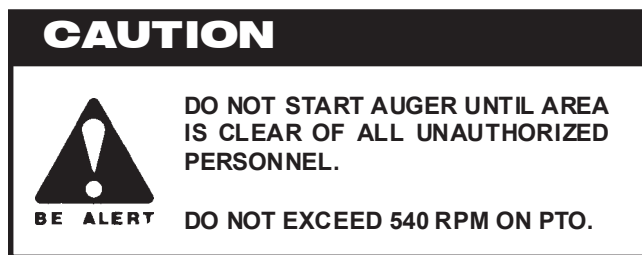
5.3 START UP AND BREAK IN

Start up and break in procedures for the PTO-SD auger are as follows:

1. Ensure that you have completed the checklist at the beginning of Section 5.1.
2. If everything is satisfactory, prepare for a 30 minute operation at half speed, augering grain.
3. Ensure that portable grain hopper is correctly positioned and secured to auger with both straps (where applicable).

IMPORTANT

ANCHORING AND/OR SUPPORT OF AUGER DURING OPERATIONS IS NECESSARY. WHEN LOWER HALF OF AUGER EMPTIES OF GRAIN, THE WEIGHT TRANSFERS TO THE UPPER END OF THE AUGER, WHICH CAN CAUSE UPENDING.



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. Start tractor and engage PTO. If auger functions normally, check at varying speeds for a period of 30 minutes.
5. Upon completion of initial run, slow auger down until empty and stop.
6. Lockout tractor and conduct a complete inspection of auger, following the checklist in Section 5.1.
7. After the initial start up and inspection, auger should be shutdown and inspected at least three times during the first 10 hours of operation.
8. Do not run empty auger at high speeds as this results in excessive wear.
9. Once auger is broken in, the checklist should be a part of the daily routine before operating auger.

5.4 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 (see **Figure No. 1**). 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.

USE OF GRAIN SPREADERS: Most grain spreaders can not handle the large capacity of the W130 augers. As a result, the auger will plug causing damage to the flighting and other drive components. This type of damage is not covered by warranty.

Hints on how to avoid this...

- Get a larger spreader, if available
- Remove the spreader
- Make certain spreader is turned on
- Auger spout must be centred on spreader
- Do not lower auger spout into spreader
- Suspend the spreader from bin ceiling leaving lots of room for excess grain to flow over the spreader
- Some farmers have suspended a curved disc about 14" to 16" from bin ceiling which is reported to do a good job of spreading the grain

BIN LEVEL INDICATORS: The W130 augers are fast and bins fill up quickly. A full bin will cause auger to plug which will damage the flighting and other drive components.

Installing quality grain-level indicators on your bins will allow you to monitor the filling of the bin and help prevent damage to your auger.

5.5 NORMAL / EMERGENCY SHUTDOWN

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

1. Near the end of a load, **decrease** auger speed until all grain is clear of machine.
2. When auger is clear, disengage the PTO.
3. Shut down and lock out tractor.

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

1. If auger is full of grain, do not restart at full speed. Engage PTO driveline at low RPM, gradually increasing power until normal operating speed is reached.

IMPORTANT

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

2. If the auger is shut down for an emergency, lock out tractor 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 5.2 for lockout procedures.)

5.6 COMPLETION / CLEAN-UP

At the completion of an operation, the auger should be moved to the next area or to a storage area. The recommended procedure is:

1. Clean entire work area.
2. Remove all wheel chocks.
3. After ensuring that area is clear of all unauthorized personnel, move auger out of working position and lower fully.

4. Prepare for transport and placement or storage. (See Transport & Placement Section 4 for correct procedure. If storing, see Maintenance & Storage Section 7 for correct procedure.)

DANGER



BEFORE MOVING AUGER OUT OF POSITION, LOOK FOR ELECTRICAL WIRES AND OBSTRUCTIONS OVERHEAD.

ELECTROCUTION CAN OCCUR WITHOUT DIRECT CONTACT.

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

DANGER



NEVER USE A PTO DRIVELINE WITHOUT A ROTATING SHIELD IN GOOD WORKING ORDER.

DO NOT EXCEED MAXIMUM RECOMMENDED OPERATING LENGTH OR ANGULARITY OF PTO DRIVELINE.

CAUTION




DO NOT LEAVE AUGER IN RAISED POSITION WHEN NOT IN USE. AUGER COULD DROP RAPIDLY IN CASE OF CABLE BREAK. HIGH WINDS MAY ALSO UPSET AUGER.

6. Hydraulics

Before connecting the auger hydraulic hose, ensure that all safety precautions and correct operating procedures are fully understood.

CAUTION



BE ALERT


KEEP CHILDREN AND UNAUTHORIZED PERSONNEL AWAY.

DO A DAILY VISUAL CHECK FOR DAMAGE TO HOSE AND CONNECTORS AND REPLACE IF NECESSARY.

DO NOT DISCONNECT HYDRAULIC COUPLER WHEN SYSTEM IS PRESSURIZED.

WEAR PROTECTIVE CLOTHING WHEN SEARCHING FOR POSSIBLE LEAKS.

CAUTION



BE ALERT

WEAR PROTECTIVE HAND AND FACE PROTECTION WHEN SEARCHING FOR HYDRAULIC LEAKS. ESCAPING FLUID UNDER PRESSURE CAN PENETRATE THE SKIN, CAUSING INFECTION OR TOXIC REACTION. SEE A DOCTOR IMMEDIATELY IF INJURED.

ESCAPING HYDRAULIC FLUID CAN BE NEARLY INVISIBLE UNDER HIGH PRESSURE. USE FLAT PIECES OF CARDBOARD OR WOOD AS BACKDROP WHEN SEARCHING FOR LEAKS.

THE REQUIRED OPERATING PRESSURE IS APPROXIMATELY 1800 PSI (12,411 kPa). RUPTURE COULD CAUSE DAMAGE AND/OR PERSONAL INJURY.

6.1 GENERAL INFORMATION

Because of the varied types of tractor hydraulic systems, the quick-connect coupler is to be supplied by the owners. Please consult your tractor manual or your dealer for the proper coupler.

Observe the following steps when connecting hose to tractor:

1. Before connecting hose, ensure that the quick connect couplers on auger and tractor are clean and free of dirt by wiping with a cloth.

IMPORTANT

DIRT IN THE HYDRAULIC SYSTEM CAN DAMAGE THE CYLINDER O-RINGS CAUSING LEAKAGE AND THE POSSIBLE FAILURE OF THE SYSTEM.

2. After connecting hose, visually check it for leaks, binding, flattening, kinks or wear.

6.2 LIFT CYLINDER HYDRAULICS

The W130 auger is elevated with two 4 inch single-acting hydraulic cylinders and cables. The following table lists the PSI required to raise specific auger sizes as determined by WESTFIELD testing.

These tests were conducted using a hydraulic pressure gauge (4000 PSI maximum rating) and are solely intended to be used as a guide. The PSI requirements for a specific auger may vary slightly. Should your auger require a significantly higher PSI to raise, contact either your dealer or WESTFIELD Industries.

AUGER	PSI	KPa
W130-51'	1400	9653
W130-61'	1600	11032
W130-71'	1800	12411

Approximate quantity of hydraulic fluid required to raise auger is as follows:

W130-51'	12.4 litres
W130-61'	15 litres
W130-71'	18 litres

To raise auger you must:

1. Ensure that the area above and around the auger is clear of unauthorized personnel, obstructions and/or electrical wires.
2. Check that the valve on hose to lift cylinders is open.
3. Disconnect PTO driveline from tractor.

IMPORTANT


WHEELS MUST BE FREE TO MOVE WHEN RAISING OR LOWERING AUGER.

4. Raise the auger to desired height.
5. Close hose valve.

IMPORTANT

IF HOSE VALVE REMAINS OPEN, A LOSS OF HYDRAULIC PRESSURE WITHIN THE TRACTOR SYSTEM WILL ALLOW THE AUGER TO LOWER INADVERTENTLY, DAMAGING EQUIPMENT AND/OR CAUSING PERSONAL INJURY.

WARNING



DO NOT DISCONNECT COUPLER UNDER PRESSURE. RELIEVE PRESSURE AND THEN DISCONNECT.

FLUID LEAKS IN THE HYDRAULIC CYLINDERS OR HOSES WILL ALLOW AUGER TO LOWER INADVERTENTLY. REPAIR ALL LEAKS AND BREAKS IMMEDIATELY.

BE ALERT

To lower the auger you must:

1. Reconnect hose coupler to tractor, if disconnected.
2. Disconnect PTO driveline from tractor before lowering.
3. Ensure that area beneath auger is clear.
4. Open hose valve.
5. Open tractor valve, feathering to prevent too rapid a descent.

IMPORTANT


ONCE VALVES ARE OPENED, AUGER LOWERS BY GRAVITY. AS THE AUGER NEARS THE FULL DOWN POSITION, THE RATE OF DESCENT WILL INCREASE. DO NOT OPERATE WITH TRACTOR VALVE FULLY OPEN.

7. Maintenance & Storage

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

CAUTION

KEEP CHILDREN AWAY WHEN PERFORMING MAINTENANCE.



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

BE ALERT

WHERE POSSIBLE, PERFORM MAINTENANCE WITH AUGER IN FULL DOWN POSITION.

REPLACE ALL SHIELDS.

7.1 GENERAL MAINTENANCE PROCEDURES

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

1. Observe the checklist in Section 5.1 on a daily basis when auger is in use.
2. Check all operating, lifting and transport components. Replace damaged or worn parts before using auger.

NOTE: *To replace a damaged part, refer to Assembly instructions in Section 3.*

3. **PTO Driveline:** Lubricate both universal joints after every 8 hours of operation. Lubricate the centre portion of driveline (grease fitting is beneath shield) on a yearly basis.
4. **Upper Chain Drive:** Fill enclosed upper drive housing to plug level with grease.

W130 2200 grams 78 oz

For continuous use in extreme cold conditions, semi fluid arctic grease or heavy oil may be used.

5. **Drive Chain Adjustment:** Maintain 1/4" to 1/2" chain deflection. To adjust, loosen the bolts on top bearing in the upper drive housing, adjust chain to proper tension, and retighten bolts.

6. **Intake Bushing:** Lubricate daily.
7. **Gearbox:** Maintain oil level at half full (centre of cross shaft). Gearbox should be level when checking or refilling. **DO NOT OVERFILL.**

IMPORTANT

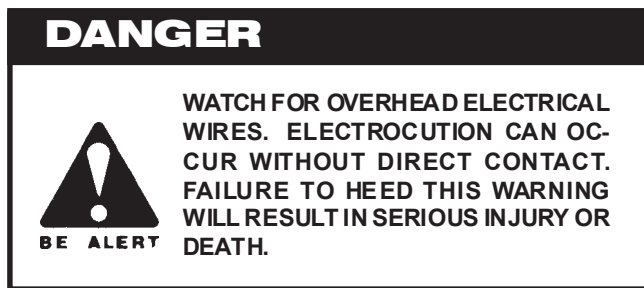
ADD EP90 LUBE OIL TO THE GEARBOX BEFORE OPERATING AUGER. FAILURE TO DO SO WILL VOID WARRANTY.

8. **Hydraulic Hose:** Check hose and hose coupler frequently for leaks, wear or damage. Replace if necessary. Use cardboard when searching for leaks.
9. **Lift Cables:** Check and replace if frayed or damaged. Make certain that cable clamps are secure.
10. **Cable Sheaves:** Oil sheave pins on lift cylinder twice a year.
11. **Truss Cables:** Adjust as needed to keep auger tube reasonably straight.
12. **Wheel Hubs:** Repack every two or three years with Lithium-based grease.
13. **Tire Pressure:** Check with a pressure gauge monthly or when pressure seems low. We recommend that pressure be maintained at 18 to 24 psi (124 to 165 kPa).

7.2 GENERAL STORAGE PROCEDURES

To protect the auger in storage during the off season, we suggest the following:

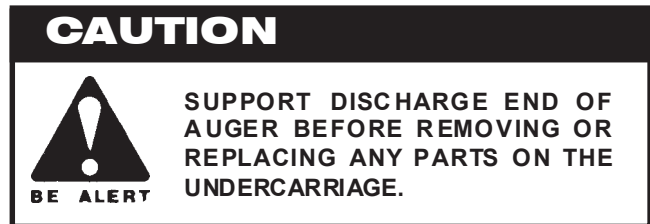
1. Lower the auger to full down position with a slight tension on cable.
2. Lubricate all grease fittings per maintenance procedures.
3. Inspect auger for damage and note any repairs required. Order replacement parts from your dealer.
4. Check tire pressure and inflate to 24 psi (165 kPa).
5. Clean and lubricate the spline on PTO driveline. Cover with a plastic bag to protect it from the weather and lock it in the transport saddle.
6. Tow auger to storage area. Park and chock wheels.



To prepare auger for use after storage, we recommend the following:

1. Check tire pressure and inflate to 18 to 24 psi (124 to 165 kPa), if necessary.
2. Tow auger to worksite, being mindful of electrical wires overhead. (**See Transport & Placement Section 4 for correct procedures**).
3. Remove waterproofing from spline on PTO driveline and relubricate.
4. Check oil level in gear box and refill if needed, half full only. **DO NOT OVERFILL.**
5. On augers equipped with lubricated upper drive, check level of lubrication annually and add as needed. Refill to plug level.
6. Replace any damaged parts and decals.
7. Conduct general maintenance procedures before using auger.

8. Before raising auger after storage, make certain cable is in good condition, replacing it if frayed or damaged. In addition, ensure that cable is properly seated in cable sheaves on lift cylinder and that cable clamps are secure.



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.

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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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