

WR6 MD

Portable Grain Auger Operator's Manual

This manual applies to:

AGI Westfield WR6 (26/31/36/41)

AGI Hutchinson WR6 (26/31/36/41)

AGI Mayrath WR6 (26/31/36/41)





Original Instructions

This product has been designed and manufactured to meet general engineering standards. Other local regulations may apply and must be followed by the operator. All personnel must be trained in the correct operational and safety procedures for this product. Use the sign-off sheet below to record initial and periodic reviews of this manual with all personnel.

Date	Employee Name and Signature	Employer Name and Signature
	+	

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1. Introduction

Follow the instructions in this manual for safe use of this auger. Following proper operation and maintenance will help to keep the auger running in optimal condition.

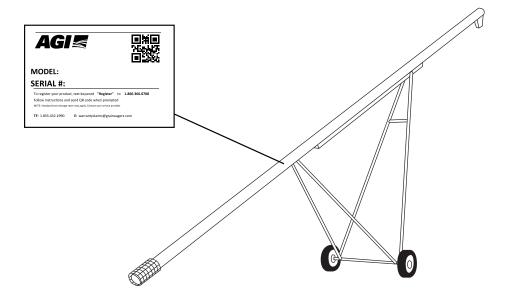
Keep this manual handy for frequent reference and to review with new personnel. A sign-off form is provided on the inside front cover for your convenience. If any information in this manual is not understood or if you need additional information, please contact AGI or your representative for assistance.

This manual should be regarded as part of the equipment.

1.1. Serial Number Location

The serial number location for your auger is shown in the figure below. Have the serial number ready when ordering parts or requesting service or other information. Record information in the table below for easy reference.

Model Number	
Serial Number	
Date Received	



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1.2. Intended Use

The auger is intended for use as listed below and described throughout this manual. Use in any other way is considered contrary to the intended use and is not covered by the warranty.

Intended use for the auger

• Handling grain, pulse crops, treated seeds, or other similar materials.

1.2.1 Misuse

Do not install/use the auger for/with:

- transferring material other than dry, free-flowing grains.
- 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.

A 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. General Safety Information

Read and understand all safety instructions, safety decals, and manuals and follow them when operating or maintaining the equipment.

 Owners must give instructions and review the information initially and annually with all personnel before allowing them in the work area. Untrained users/operators expose themselves and bystanders to possible serious injury or death.



- Use for intended purposes only.
- Modification of the auger in any way without written permission from the manufacturer is not covered by the warranty.
- Follow a health and safety program for your worksite. Contact your local occupational health and safety organization for information.
- Follow applicable local codes and regulations.

2.3. Rotating Flighting Safety

A DANGER

- KEEP AWAY from rotating flighting.
- DO NOT remove or modify flighting guards, doors, or covers. Keep in good working order. Have replaced if damaged.
- DO NOT operate the auger without all guards, doors, and covers in place.
- NEVER touch the flighting. Use a stick or other tool to remove an obstruction or clean out.
- Shut off and lock out power to adjust, service, or clean.



2.4. Overhead Power Lines



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



2.5. Upending



- 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 auger and fully lower before moving.



2.6. Rotating Parts Safety

MARNING

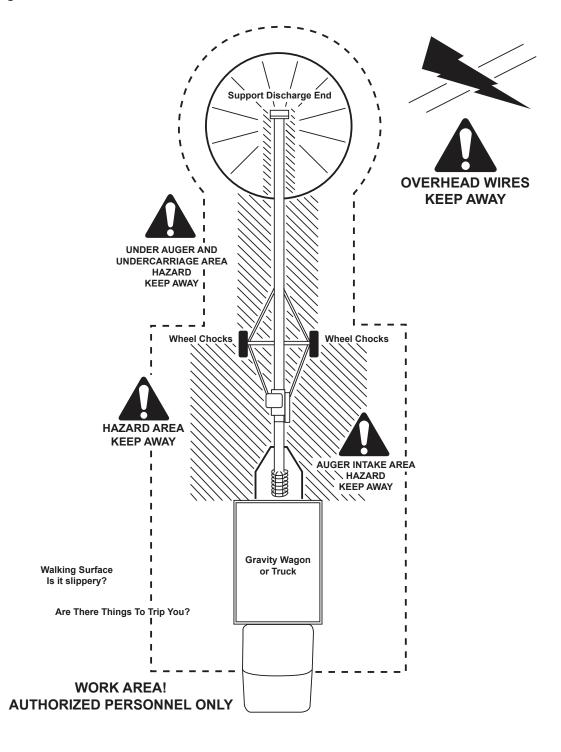
- Keep body, hair, and clothing away from rotating shafts, pulleys, belts, chains, and sprockets.
- Do not operate with any guard removed or modified. Keep guards in good working order.
- Shut off and lock out power source before inspecting or servicing machine.



2.7. Work Area Safety

- Have another trained person nearby who can shut down the auger in case of accident.
- Do not allow any unauthorized persons in the work area.
- Keep the work area clean and free of debris.

Figure 1. Work Area



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2.8. Guards Safety

⚠ WARNING

- Keep guards in place. Do not operate with guard removed.
- 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 Auger

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

2.10. Hand Winch Safety

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

2.11. Positioning the Auger

- WARNING Transport and place equipment on reasonably level ground when raising, lowering, positioning, or operating.
 - Move the auger into position slowly. Do not unhitch and attempt to move by hand.
 - Chock wheels and anchor intake end after placement.

2.12. Towing the Auger

The auger is not intended for transport on public roads. If it requires transport on a public roadway, the following steps should be taken:



- 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 auger or towing vehicle during transport.
 - Attach to towing vehicle with an appropriate pin and retainer. Always attach safety chains.
 - Place the auger 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 Gas Engine Safety

↑ WARNING Power Source

- Keep guards in place and secure.
- Properly ventilate surrounding area.
- · Never fill the fuel tank with the engine running, while smoking, or near an open flame. Always shut down and allow engine to cool before filling with fuel.
- Never overfill the tank or spill fuel. If fuel is spilled, clean it up immediately.
- Be sure to use the correct type and grade of fuel. Ground the fuel funnel or nozzle against the filler neck to prevent sparks that could ignite fuel vapors.
- Be sure to replace the fuel fill cap when you are done.

Lockout

- For engines with an electric start, remove the ignition key, the spark plug wire, or the spark plug.
- For engines with a rope or crank start, remove the spark plug wire or the spark plug.

2.13.2 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.
- Use a magnetic starter to protect the electric 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.
- Ensure electrical wiring and cords remain in good condition; replace if necessary.

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

2.14. 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. Battery Safety

⚠ WARNING

- Wear safety glasses and protective gloves when working near batteries.
- Make certain the battery or terminal covers are in place and in good working order.
- Keep all sparks and flames away from batteries; gas given off by electrolyte is explosive.
- Avoid contact with battery electrolyte. Wash off any spilled electrolyte immediately.
- Do not tip batteries more than 45° to avoid electrolyte loss.
- To avoid injury from sparks or short circuits, disconnect battery ground cable before servicing any part of an electrical system.



2.16. 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.



Hearing Protection

• Wear ear protection to prevent hearing damage.



2.17. 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.



2.18. 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.

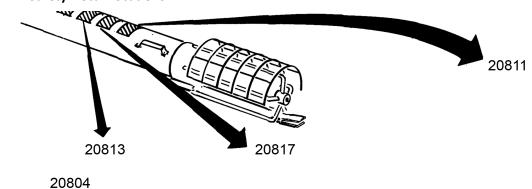
2.18.1 Decal Installation/Replacement

- 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 decal backing paper.

2.18.2 Safety Decal Locations and Details

Replicas of the safety decals that are attached to the auger and their messages are shown in the figure(s) that follow. Safe operation and use of the auger 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 2. Safety Decal Locations



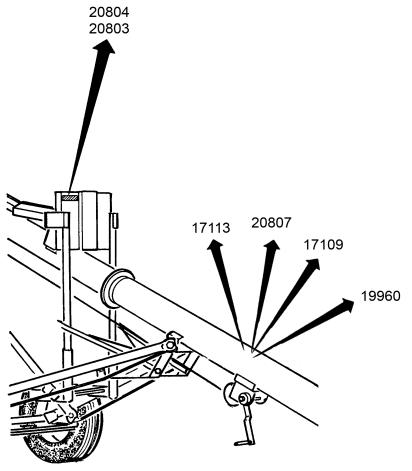


Table 1. Safety Decals

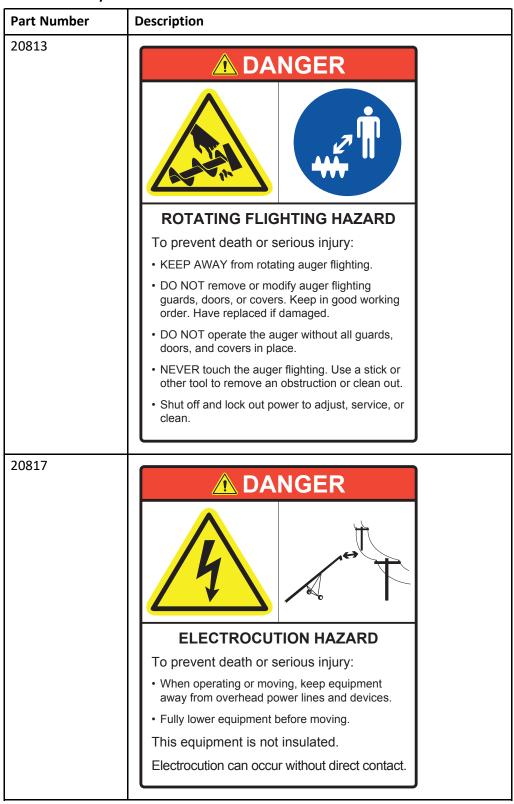


Table 1 Safety Decals (continued)

Part Number	Description		
20803 (placed on machine behind guard)	⚠ WARNING		
	MISSING GUARD HAZARD To prevent serious injury or death, shut off power and reattach guard before operating machine.		
20804	^ MAA DAUNIO		
	<u> </u>		
	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 lock out power source before inspecting or servicing machine.		

Table 1 Safety Decals (continued)

Part Number	Description	
20807	<u> </u>	
	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 representative for free replacements.	
	Lock out power before performing maintenance.	
	To prevent equipment collapse or upending, support equipment tube while disassembling certain components.	
	Follow grain storage structure manufacturer's warnings when loading and unloading.	
	Electric motors must be grounded. Disconnect power before resetting overloads.	

Table 1 Safety Decals (continued)

Part Number	Description	
20811	WARNING	
	UPENDING HAZARD	
	To prevent death or serious injury:	
	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 tube and fully lower before moving.	
17113 ••• WARNING		
	TRANSPORT HAZARD To prevent serious injury or death: • Securely attach equipment to vehicle with correct pin and safety chains. • Use a tow vehicle to move equipment.	

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.	
19960		
	NOTICE	
	To prevent damage, wheels must be free to move when raising or lowering equipment.	
	When equipment is positioned, chock all wheels.	

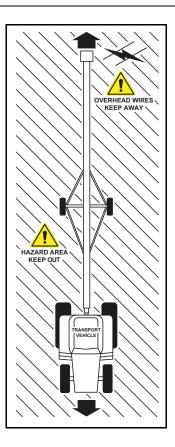
3. Transport

When transporting, follow all safety precautions and use a proper tow vehicle to help ensure safe transport of the auger.

3.1. Transport Safety

⚠ WARNING

- 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, maximum transport speed sign, 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 auger.
- Do not allow riders on the auger 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 auger before transporting, and only raise when next to storage facility.
- Attach to a proper towing vehicle with a hitch pin and retainer. Always attach safety chains.
- Do not raise the intake end above drawbar, upending may occur.
- Empty auger of all grain or seed before transporting. Transporting a full auger 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 auger wheels are partially or fully buried in snow or grain, failure to clear area around the wheels before transporting may cause damage to the auger or result in serious injury.

3.2. Transport Preparation

- Do not tow faster than 20 mph (32 km/h). Table 2 references the acceptable transport speed as per the
 ratio of tractor weight versus auger weight. See Specifications (Section 8. Specifications on page 40) for
 auger weights.
 - WARNING A weight imbalance between the auger and the towing vehicle could result in a collision from reduced stability, handling, and braking ability.
- Ensure the auger will clear any overhead obstructions or electrical wires prior to transporting. Refer to Section 8. – Specifications on page 40 for the transport height of your auger.

Table 2. Speed versus Weight Ratio

Road Speed	Weight of auger relative to weight of tow vehicle
Up to 20 mph (32 km/h)	1 to 1, or less than the weight of the tow vehicle
Up to 10 mph (16 km/h)	2 to 1, or less than the weight of the tow vehicle
Do not tow if	More than 2 to 1

3.3. Connect the Auger to the Towing Vehicle

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

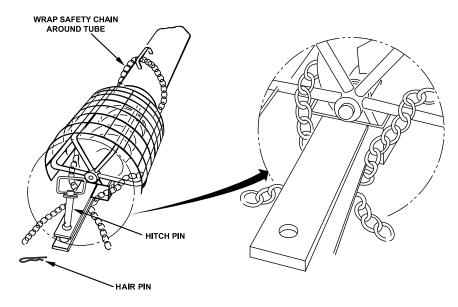
- 1. Place the auger in the full down position. The frame should be in the full down position with slight tension on the lift cable. Refer to Section 4.3 Hand Winch Operation on page 26.
- 2. Place and secure hitch pin using a clevis to tongue connection only. If the towing vehicle has a larger pin hole, use the largest pin diameter that will fit through the holes of the towing vehicle and auger hitch. Ensure the pin will not slip through the larger holes by inserting a heavy-duty large diameter washer on the top and bottom of the pin.

Important

Use a type of hitch pin that will not allow the auger to separate from the towing vehicle, and with a load rating that at least matches the carrying capacity of the towing vehicle (class 3 trailer hitch).

- 3. Thread the safety chain and form a cradle to prevent the auger from digging into the road surface or upsetting (should a breakaway occur), see Figure 3. Replace the safety chain if one or more links or end fittings are stretched, broken, damaged, or deformed. The safety chain should have a load rating at least as high as the auger weight (545–1000 lb).
- 4. If the distance from the hitch pin to the front or rear chain attachment point is more than 9", attach an intermediate chain support.
- 5. Use caution when transporting the auger over rolling terrain. In severe dips, the intake end may contact the ground.

Figure 3. Typical Safety Chain and Hitch Connection



4. Placement

4.1. Placement Safety

⚠ WARNING

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

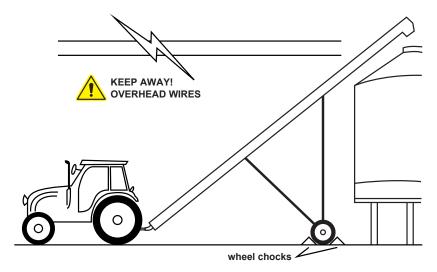
4.2. Positioning the Auger

Before positioning the auger, ensure the towing hitch is in place and secure. To position the auger using a tractor:

Filling Bins

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

Figure 4. Typical Grain Auger Placement for Filling Bins



Under Hopper Bottom Bins

- 1. Position the intake hopper between the hopper bin vertical legs.
- 2. Move auger into place. Do not allow auger or components to contact grain bin.
- 3. Raise the auger to desired height.
- 4. Place chocks in the front and back of each wheel and anchor the intake end.

Note

Refuel and check the oil in the engine before raising the auger (where applicable). With the auger fully raised, it may be necessary to use secure means such as a step ladder to service the engine.

4.3. Hand Winch Operation

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 trackshoe roller.
- 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 auger fully lowered.

To operate:

- 1. Turn the winch handle to raise and lower the auger. The winch must make a clicking sound when raising the auger. If clicking sound stops, retain grip on handle, lower the auger fully and repair winch.
- 2. When lowering, if the cable becomes slack before auger is in full down position, this indicates that the track shoe is stuck. Do not continue to turn the winch handle counter-clockwise because it will disengage the brake mechanism and create an unsafe condition. Too much slack in the cable may cause the auger to drop suddenly. To correct the problem, reverse the winch and raise the auger until the cable is taut and the track slides normally. Do not lubricate the winch brake discs.

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



Do not turn winch handle counter-clockwise except when lowering auger or severe damage to winch will occur.

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5. Operation

For optimal operation, follow the safety precautions, checklists, and instructions in this section.

5.1. Operation Safety

- MARNING Keep away from rotating and moving parts, including the flighting, drive components, shafts, and bearings.
 - 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.

5.2. Start-up and Break-in

Check the following during the first hours of operation.

1. Check that the auger intake and discharge areas are free of obstructions.



Foreign objects can damage the auger. Remove any obstructions from the intake and discharge areas before operating the auger.

- 2. Check the drive belt tension and alignment. See Maintenance Section for instructions.
- 3. Before starting the gas engine or electric motor, ensure the belt release lever is disengaged so that the belt(s) are released from the lower motor pulley.
- 4. Visually inspect the auger, see Visual Inspection in Maintenance Section.
- 5. Check tightness of all bolts/nuts, fasteners, and hardware (re-torque if necessary).
- 6. Ensure adequate power is supplied to operate the auger, see Section 8. Specifications on page 40.
- 7. Start the gas engine or electric motor and engage the belt release, then feed grain to the auger.
- 8. Be aware of unusual sounds. If any are heard, determine the source and stop the auger. Lock out the power and correct the problem before resuming work. If you are unsure of the problem or procedure, contact your local dealer.

Note

The auger may run rough until the tube is polished.

- 9. Do not run the auger for long periods of time without material because it increases wear. Try to run only when moving material.
- 10. Stop the auger when it is empty of grain and lockout power.

Important

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

5.3. Emergency Shutdown

In an emergency situation:

- 1. 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.

5.4. Restarting with a Full Tube

When the auger 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 auger.

- 2. Close or replace guards or covers before restarting.
- 3. **Electric Motor Models:** If the auger tube is full of grain, it may be necessary to tighten the drive belts slightly to handle the heavier than normal loads.



- 4. **Gas Drive Models:** If the auger tube is full of grain, do not restart at full speed. Engage the belt release at low power, gradually increasing power until normal operating speed is reached.
- 5. Once the auger has been started, resume normal operation.

5.5. Bin Level Indicators

A full bin will cause the auger to plug, which can damage the flighting and other drive components. Installing grain-level indicators on bins will allow monitoring of bin filling and help prevent damage to the auger.

5.6. Using the Auger with Grain Spreaders

Some grain spreaders may not be able to handle the capacity of the auger and can cause the auger to plug, damaging the flighting and other drive components. This type of damage is not covered by warranty. To avoid this:

- Make sure spreader is turned on and operating.
- When using a flex down spout, center auger spout above spreader and do not lower auger spout into spreader.
- Suspend the spreader lower from bin ceiling leaving extra room for excess grain to flow over the spreader.
- Get a larger spreader, if available.
- Remove the spreader.

5.7. Shutdown

When operation has been completed:

- 1. Once the auger is clear of grain, lock out the power source.
- 2. Lower the auger fully. See Section 4.3 Hand Winch Operation on page 26.
- 3. Clean out any remaining grain from the auger with a vacuum or sweep out.
- 4. Clean the entire work area.
- 5. Remove anchors, supports, and chocks.

5.8. Handling Fertilizer

If the auger has been used to move fertilizer, it should be cleaned out to prevent corrosion. The easiest way to prevent corrosion is to run a load of grain through it after moving fertilizer or wash the auger.

5.9. Storing the Auger

After the season's use, thoroughly inspect the auger and prepare it for storage. Repair or replace any worn or damaged components and perform maintenance to prevent downtime at the start of the next season.

To ensure a long, trouble-free life, follow the below procedure.

- 1. Remove all residual material from the hopper and the tube.
- 2. Wash the auger thoroughly using a water hose or pressure washer to remove all dirt, mud, debris, or residue. Be careful to not contact electronic controls with high pressure water.
- 3. Inspect all moving or rotating parts to see if anything has become entangled in them. Remove any entangled material.
- 4. Touch up all paint nicks and scratches to prevent rusting.
- 5. Check tire pressure and inflate. For inflation pressure, refer to Section 8. Specifications on page 40.
- 6. Inspect the auger for cracks, tightness of fittings and fasteners, and hydraulic hose cracks (if applicable). Have required repairs performed to replace worn or damaged components.
- 7. Store in an area that is dry, level, free of debris, and away from human activity. Store inside if possible.
- 8. Cover the motor with waterproof tarp if stored outside to protect from weather.
- 9. Chock wheels.



- 10. Remove the battery (where applicable) and store in a cool, dry place. Recharge periodically as required.
- 11. Drain the gas tank (where applicable).
- 12. Support intake on blocks to eliminate prolonged contact with the ground.
- 13. Lower the auger fully for storage.

6. Maintenance

Proper maintenance will improve safety, efficiency, and will keep the auger operating reliably.

6.1. Maintenance Safety

⚠ WARNING

- 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 AGI replacement parts or equivalent. Use of unauthorized parts will void warranty. If in doubt, contact AGI or your local dealer.

Before attempting maintenance of any kind:

- · Lower the auger fully.
- Chock wheels.
- Support the tube if performing maintenance on the undercarriage assembly or when changing the drive belts.



6.2. Maintenance Schedule

Follow the maintenance procedures below. Keep records of the hours the auger has been operated and the maintenance performed.

Daily:

Section 6.3 – Visually Inspect the Equipment on page 32

Section 6.4 – Lubricate the Equipment on page 32

Section 6.6 – Grease the Intake Bushing on page 33

Monthly:

Section 6.8 – Grease the Upper Drive Chain on page 34

Annually:

Section 6.5 – Apply Oil to the Motor Mount on page 33

Section 6.7 – Adjust the Upper Drive Chain on page 33

Section 6.9 – Clean and Wash the Equipment on page 34		
As Required:		
Section 6.10 – Tension the Drive Belts on page 35		
Section 6.11 – Align the Drive Belts on page 35		
Section 6.12 – Replace the Drive Belts on page 36		
Section 6.13 – Repack the Wheel Bearings with Grease on page 36		

6.3. Visually Inspect the Equipment

WARNING Lock out power before inspecting.

Check the following during a visual inspection:

- 1. Ensure all guards are in place and in good working order.
- 2. Examine the auger for damage or unusual wear.
- 3. Check tightness of bolts/nuts, fasteners, and hardware (re-torque if necessary).

Section 6.14 – Inspect and Service the Hand Winch and Lift Cable on page 37

- 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.
- 7. Check wheel bolts are tight and examine tires for gashes, uneven wear, or loss of air pressure. See Section 8.

 Specifications on page 40 for recommended tire pressure and torque information.
- 8. Check all operating, lifting, and transport components. Replace damaged or worn parts before using the auger.
- 9. Inspect the auger shaft bushing for unusual wear or discoloration.
- 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.
- 5. If intake bushing is present in your auger, lubricate it.

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

6.5. Apply Oil to the Motor Mount

Lightly oil motor mount pipes and the belt release eccentric for greater ease in disengaging the drive.

6.6. Grease the Intake Bushing

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

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

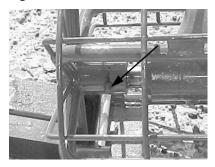
Use only a hand-held grease gun.

Wipe grease fitting with a clean cloth before greasing to avoid injecting dirt and grit.

If fitting will not take grease, remove and clean thoroughly. Also clean lubricant passageway. Replace fitting if necessary.

1. Lubricate the intake bushing zerk.

Figure 5. Intake Zerk



6.7. Adjust the Upper Drive Chain

Maintain 1/4"-1/2" (0.64 cm-1.27 cm) chain deflection.

- 1. Loosen the bolts and remove the cover plate.
- 2. Loosen the bolts on the top bearing in the upper drive housing.

Note

Improper adjustment of the drive chain will result in premature wear.

- 3. Remove the connecting link and link. Add a half link to the chain if required.
- 4. Grease the chain with SAE multi-purpose high-temperature grease with extreme pressure (EP) performance. SAE multi-purpose lithium-based grease is also acceptable.
- 5. Reattach the cover plate and tighten the bolts.

Figure 6. Upper Drive Chain



6.8. Grease the Upper Drive Chain

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

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

Use only a hand-held grease gun.

Wipe grease fitting with a clean cloth before greasing to avoid injecting dirt and grit.

If fitting will not take grease, remove and clean thoroughly. Also clean lubricant passageway. Replace fitting if necessary.

1. Fill enclosed upper drive housing to plug level with grease. See Section 8. – Specifications on page 40.

Figure 7. Upper Drive Chain Zerk



6.9. Clean and Wash the Equipment

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

Important

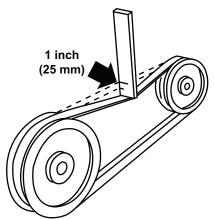
Do not contact electronic controls with high pressure washer.

3. Provide sufficient time for the water to drain from the auger.

6.10. Tension the Drive Belts

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

Figure 8. Typical Drive Belt Tensioning



2. 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.

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

6.11. Align the Drive Belts

- 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 set screws to secure pulley on the drive shaft.
- 4. Check the belt tension.
- 5. Reattach and secure the guard.

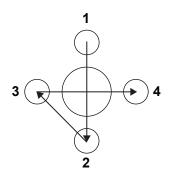
6.12. Replace the Drive Belts

- 1. Slip the new belt over the intake end.
- 2. Remove the two 5/8" x 1-1/2" bolts and lock nuts connecting the lower reach arms to the auger tube.
- 3. Remove the guard.
- 4. Fully loosen the old drive belt.
- 5. Remove and replace the old belt.
- 6. Reattach the lower reach arms to the mounting bracket on the auger tube with two 5/8" x 1-1/2" bolts and lock nuts. Do not overtighten. Tighten snug only. These bolts act as pivot points.
- 7. Tighten the drive belt as described in Belt Tension.
- 8. Align the drive belt as described in Belt Alignment.
- 9. Reattach and secure the guard.

6.13. 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 9. Diagonal Pattern for 4-bolt Tires



6.14. Inspect and Service the Hand Winch and Lift Cable

⚠ WARNING

Place auger 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. Keep a film of grease on the gears. Occasionally oil the bushings, drum shaft, and ratchet.
- 4. Do not get oil or grease on brake discs.
- 5. Replace brake discs if less than 1/16" (1.6 mm) thick.
- 6. 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. Free the cable from the winch and track shoe.
- 3. Remove the cable clamps that secure the cable to the anchor.
- 4. Reverse the above steps to install the new cable.

7. Troubleshooting

Find causes and solutions to common problems that can be encountered.



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.



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

The following section covers some causes and solutions to some of the problems that may be encountered.

If there is a problem that is difficult to solve, even after having read through this section, please contact your representative or AGI. Have this manual and the serial number available.

Auger

Problem	Cause	Solution
Excessive noise or vibration. *Remember to follow proper break-in procedures—flighting 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.	Chatter from wooden bearings.	Spray penetrating lubricant between shaft and bearing surface. Bearings will break in over time. *If replacement of a bearing becomes necessary, split bearings are available to avoid having to slide all bearings off driveshaft.
	Flighting peeled back due to plugging.	Inspect spout end of auger for flighting condition. Remove and replace flighting sections as necessary.
	Top drive inadequately lubricated.	Fill to appropriate level with grease. Top drive is not designed to be filled with oil.
	Bent flighting sections.	Support auger and remove all flighting sections. Check for straightness of flight stubs by rolling across flat concrete section. Straighten stub or replace as necessary. Take care not to bend flighting when reinstalling.
	Obstruction in auger tube.	Visually inspect for cloth or trash wrapped around flighting, or buildup of gum from oily crops such as flax or canola.
Premature wear on auger tubes.	Auger being run at low capacity or empty for extended period of time.	Frequently occurs on farms using grain wagons. Auger should not be left unattended when filling bins. Depending
	Bent flighting.	on application, a belt conveyor may be more appropriate.

	Flighting allowed to wear beyond normal point of replacement.	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.
The flighting does not turn.	Auger flighting is plugged or obstructed.	Identify and remove obstruction.
	Bearing is seized.	Identify the bearing and replace.
	A chain is broken.	Identify the chain and repair or replace.
	Upper drive chain is broken.	Repair or replace.
Auger flighting is	Obstruction in the auger tube.	Identify and remove obstruction.
noisy.	Flighting shaft bolts are loose or damaged.	Tighten or replace bolts.
	Flighting shaft is bent.	Repair or replace flighting shaft.
	Flighting is damaged.	Repair or replace flighting.
	Worn bearing.	Repair or replace bearing.
	Upper chain drive loose.	Tighten the chain as required.
Shear bolts fail repeatedly.	Flighting peeled back as a result of plugging.	Occurs when bin has overfilled, or corn spreaders restrict end of discharge. Inspect flighting at discharge end of auger. If necessary, replace flighting.
	Driveline failure.	See Maintenance Section.

Drive

Problem	Cause	Solution		
Drive belts jumping off pulleys.	Motor misaligned.	Ensure drive and driven pulleys are correctly aligned.		
	Belts mismatched.	Check Specifications section for correct belt sizes.		
	Belt tension inadequate.	Adjust tension.		
	Using a lower horsepower motor than recommended	See Specifications for recommended motor sizes.		

8. Specifications

Specification	6-26	6-31	6-36	6-41				
Tube Size	6" (152 mm)							
CAPACITIES								
Unloading Rate	1600 Bu/Hr							
TRANSPORT DIMENSIONS								
Width	5'8" (1.73 m)	5'10" (1.78 m)	6'10" (2.08 m)	7'4" (2.24 m)				
DISCHARGE CLEARANCE DIMENSIONS								
Min	6'5" (1.96 m)	7'8" (2.34 m)	9'0" (2.74 m)	9'7" (2.92 m)				
Max	17'11" (5.46 m)	21'6" (6.55 m)	24'10" (7.57 m)	28'7" (8.71 m)				
WEIGHT								
Total Weight	605 lb (274 kg)	660 lb (299 kg)	740 lb (336 kg)	765 lb (347 kg)				
TIRES								
Туре	15" Radial							
Inflation Pressure	20–24 psi (137–165 kPa)							
POWER RECOMME	POWER RECOMMENDATIONS							
Gas Engine	10 HP	10 HP	12 HP	12 HP				
Electric Motor	3 HP	3 HP	3 HP	3 HP				
PARTS SPECIFICATIONS								
Upper Drive Housing Grease Quantity	550 g (20 oz)							
Belt Size	B95							

9. Appendix

9.1. Bolt Torque

Table 3 gives the correct torque values for various hardware. Tighten all bolts to the torque specified, unless otherwise noted. Check tightness periodically, using Table 3 as a guide. Replace the hardware with the same strength bolt, contact AGI if you are unsure.

Table 3. Recommended Bolt Torque¹

	Dry or Lubricated	Threads per inch (Course/ Fine)	Area of Bolt (sq in.)		Recommended Torque (ft-lb)							
Size					Grade 2		€ Grade 5		Grade 8		8.8 S/S	
			Coarse	Fine	Coarse	Fine	Coarse	Fine	Coarse	Fine	Coarse	Fine
1 / 4 !!	Dry	20/28	0.0318	0.0364	5.5	6.3	8	10	12	14	6.3	7.8
1/4"	Lubricated				6.3	4.7	6.3	7.2	9	10	-	-
5/16"	Dry	18/24	0.0524	0.058	11	12	17	19	24	27	11	11.8
3/10	Lubricated				8	9	13	14	18	20	-	-
3/8"	Dry	16/24	0.0775	0.0878	20	23	30	35	45	50	20	22
3/6	Lubricated	10/24			15	17	23	25	35	35	-	_
7/16"	Dry	14/20	0.1063	0.1187	32	36	50	55	70	80	31	33
7/10	Lubricated	14/20	0.1063		24	27	35	40	50	80	-	-
1/2"	Dry	13/20	0.1419	9 0.1599	50	55	75	85	110	120	43	45
1/2	Lubricated	13/20	0.1419		35	40	55	65	80	90	-	-
9/16"	Dry	12/18	0.182	0.203	70	80	110	120	150	170	57	63
3/10	Lubricated	12/10			55	60	80	90	110	130	-	-
5/8"	Dry	11/18	0.226	0.256	100	110	150	170	210	240	93	104
3/0	Lubricated	11/10			75	85	110	130	160	180	-	-
3/4"	Dry	10/16	0.334	0.373	175	200	260	300	380	420	128	124
5, .	Lubricated	10, 10	0.554		130	140	200	220	280	310	-	-
7/8"	Dry	9/14	0.462	0.508	170	180	430	470	600	670	194	193
7/8	Lubricated		0.402		125	140	320	350	180	180	-	-
1"	Dry	8/14	0.606	0.679	250	280	640	720	910	1020	287	289
-	Lubricated	0/ 14	0.000		190	210	480	540	680	760	-	-
1-1/8"	Dry	7/12	0.763	0.856	350	400	790	890	1290	1440	288	290
	Lubricated				270	300	590	670	970	1080	-	-
1-1/4"	Dry	7/12	0.989	1.073	500	550	1120	1240	1820	2010	289	291
	Lubricated				380	420	840	930	1360	1510	-	-
1-1/2"	Dry	6/12	1.405	1.581	870	960	1950	2200	3160	3560	-	-
	Lubricated				650	730	1460	1640	2370	2670	-	-

^{1.} Torque value for bolts and cap screws are identified by their head markings. Established at 75% of yield strength of bolt given the cross-sectional area.

Note

Torque figures in table are valid for non-greased or non-oiled threads and head unless otherwise specified. Therefore, do not grease or oil bolts or cap screws unless otherwise specified in this manual. When using locking elements, increase torque values by 5%.

10. AGI Limited Warranty

This warranty relates to AGI Augers (the "Product") sold by AGI, (referred to herein as the "Seller") and applies only to the first user of the Product (meaning a purchaser directly from the Seller or from an authorized dealer or distributor of the Product, referred to herein as the "Buyer").

This warranty shall only be effective if properly registered with the Seller in accordance with information provided to the Buyer at the time of sale.

- 1. The Seller warrants to the Buyer that the Product is free from defects in material and workmanship **under normal and reasonable use**.
- 2. This warranty applies only to defects in materials and workmanship and not to damage incurred in shipping or handling, through normal wear and tear, or damage due to causes beyond the control of the Seller such as lightning, fire, flood, wind, earthquake, excessive voltage, mechanical shock, water damage, or damage arising out of abuse, alteration, improper assembly, improper installation, improper maintenance or improper repair of the Product.
- 3. The warranty period for the Product shall be two years from delivery of the Product to the Buyer where the Product is used in a normal farm operation. First year of warranty coverage of parts and labour, second year warranty coverage of parts only. 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. 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.
- 4. The obligations set forth in this warranty are conditional upon the Buyer promptly notifying the Seller of any defect and completing reasonably required documentation and, if required, promptly making the Product available for correction. The Seller shall be given reasonable opportunity to investigate all claims and no Product shall be returned to the Seller or part disposed of until after inspection and approval by the Seller and receipt by the Buyer of written shipping instructions, with transportation charges prepaid.
- 5. Upon return of the Product, or such part of the Product that requires correction, the Seller shall, at the Seller's option, either repair or replace the Product or such part. The Seller shall replace or attempt to repair and return the Product or such part within a reasonable period of time from receipt of an approved warranty claim from the Buyer. If the Seller is unable to repair or replace the Product, the Buyer shall be entitled to a credit note in the amount of the purchase price for the Product.
- 6. The total liability of the Seller on any claim, whether in contract, tort or otherwise, arising out of, connected with, or resulting from the manufacture, sale, delivery, repair, replacement or use of the Product or any part thereof shall not exceed the price paid for the Product and the Seller shall not be liable for any special indirect, incidental or consequential damages caused by reason of the installation, modification, use, repair, maintenance or mechanical failure of the Product. Consequential or special damages as used herein include, but are not limited to, lost or damaged products or goods, costs of transportation, lost sales, lost orders, lost income, increased overhead, labor and incidental costs and operational inefficiencies.
- 7. Notwithstanding anything contained herein to the contrary, the foregoing is the Buyer's sole and exclusive remedy for breach of warranty by the Seller in respect of the Product. The Seller, for itself, its agents, contractors, employees and for any parent or subsidiary of the Seller, expressly disclaims all warranties, either express or implied, written or oral, including implied warranties of merchantability or fitness for a particular purpose and undertakes no obligation with respect to the conformity of the Product except as set out in the purchase agreement, if any, or marketing materials.
- 8. The foregoing warranty is the entire warranty of the Seller to the Buyer and the Buyer shall not be entitled to rely upon any representation or warranty contained in any marketing material of the Seller in respect of the Product. The Seller neither assumes, nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning the Product.

WARRANTY VOID IF NOT REGISTERED

AGI is a leading provider of equipment solutions for agriculture bulk commodities including seed, fertilizer, grain, and feed systems with a growing platform in providing equipment and solutions for food processing facilities. AGI has manufacturing facilities in Canada, the United States, the United Kingdom, Brazil, South Africa, India and Italy and distributes its products globally.



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