

WESTFIELD[®]

**REAR MOUNT
DRILL FILL**

**ASSEMBLY &
OPERATIONS
MANUAL**

RM-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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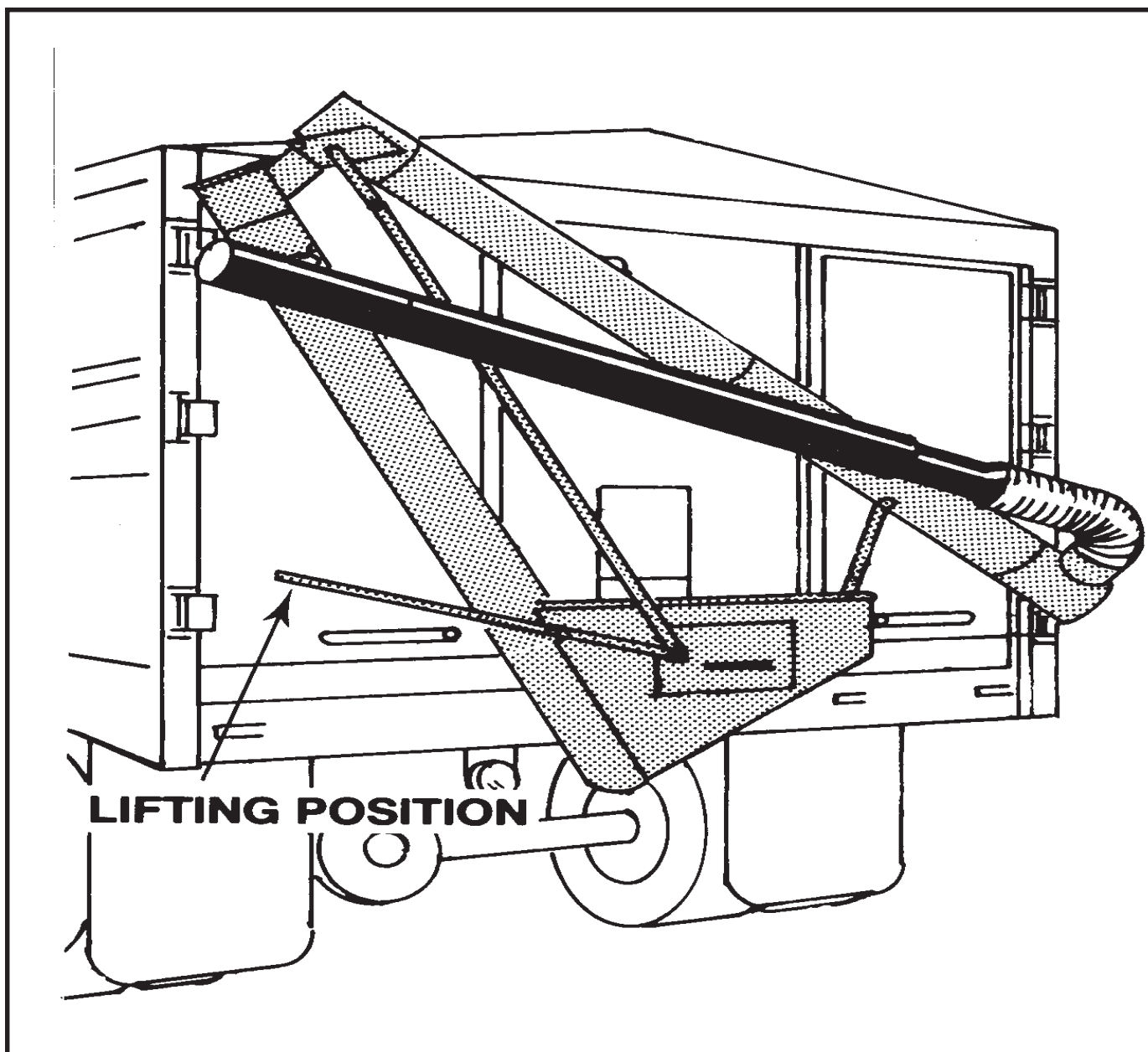
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1. Introduction

Congratulations. As the new owner of a WESTFIELD DRILL FILL UNIT, you will be working with equipment designed to complement and improve your farming operation. Before using the DRILL FILL, we recommend that you read this manual and familiarize yourself with the machine and the necessary precautions for an efficient and safe operation. In addition, we suggest that anyone assembling this equipment be familiar with all safety precautions.

The hydraulic motor requires a minimum of 8 GPM and a maximum of 12 GPM at 1400 PSI to function properly. Drill Fill must be grounded to truck frame.

Thank you.



2. Safety First

Safety first. Most people practise it. Sadly, a few choose to ignore it. Safety should be a habit, to be observed each time you work with machinery. Safe working habits prevent needless accidents and needless injuries or death.

Whether you are the owner, a supervisor, or an operator, it is your responsibility to know the operational hazards of rear mount drill fill augers and to ensure that anyone working with or around these augers be familiar with them.

Remember, a lack of knowledge serves only to endanger yourself and those around you.

TAKE THE TIME - BE ALERT - BE SAFE

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

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



GENERAL SAFETY PRECAUTIONS

Safety around drill fill augers requires familiarity with the equipment, the observance of proper precautions, and good common sense. Always remember to:

- Keep children and unauthorized personnel away from the general work area. A hazard zone of approximately 20 feet around the area should be maintained.
- Have another person nearby who can shut down equipment in case of accident.
- Check for breaks or leaks in the hydraulic system. Repair or replace damaged parts immediately. Use cardboard or wood as a backstop when searching for hydraulic leaks.
- The drill fill auger is not insulated. Keep away from all electric lines and devices. Electrocution can occur without direct contact.
- Do not operate with any safety shield removed.
- Do not operate with clean-out door open or quick-dump door removed. Ensure that retaining pin securing clean-out door latch is in place.
- Before starting truck, be sure that all power (electrical and hydraulic) to the drill fill auger is in the off position.
- Keep body, hair, and clothing away from moving parts.
- Keep away from hopper during operation.
- Do not disconnect hydraulic couplers when hydraulic system is pressurized.
- Lower upper tube section to transport position at completion of operation, or when not in use. Do not transport with upper tube in raised position.
- Ensure that auger tube is empty before lowering into transport position.
- When raising or lowering upper tube section, ensure that all personnel are clear.
- When raising or lowering upper tube section, be aware of weight shift. KEEP FIRM GRIP ON LIFT HANDLE.
- Shut off and lock out all power to drill till auger before adjusting, cleaning, or performing maintenance of any kind.

⚠ DANGER



ELECTROCUTION HAZARD
 This equipment is not insulated. Keep equipment away from overhead power lines and devices. Electrocution can occur without direct contact. Fully lower equipment and truck box before moving.
FAILURE TO KEEP AWAY WILL RESULT IN SERIOUS INJURY OR DEATH.

MADE IN CANADA / 03-1 17100

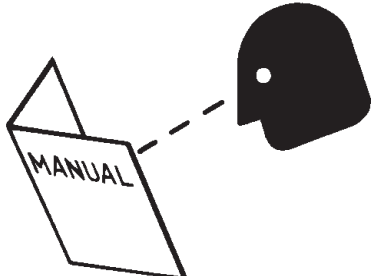
⚠ DANGER



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 / 03-1 17103

⚠ WARNING

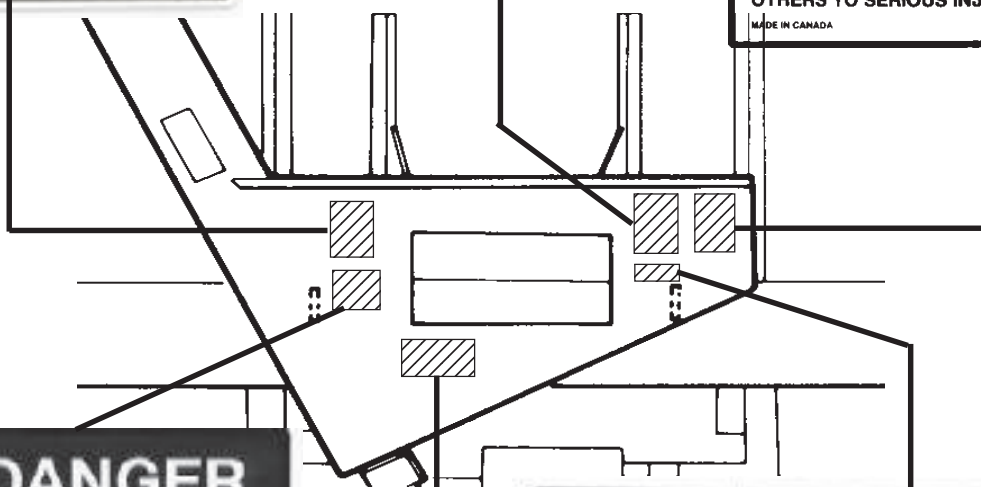


DO NOT OPERATE THIS AUGER unless

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

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

MADE IN CANADA 17096



⚠ DANGER

ROTATING FLIGHTING INSIDE
 Do not operate equipment with clean-out cover removed. To clean out, shut off and lockout power, then remove cover. Use stick or other tool to clean out. Replace cover before restarting.
FAILURE TO HEED WILL RESULT IN SERIOUS INJURY OR DEATH.


MADE IN CANADA / 03-1 17101

⚠ WARNING

Securely block truck box hoist if box is raised to install or service hydraulic or electrical lines to prevent unintentional lowering.
FAILURE TO HEED WILL RESULT IN SERIOUS INJURY

MADE IN CANADA / 03-1 17104

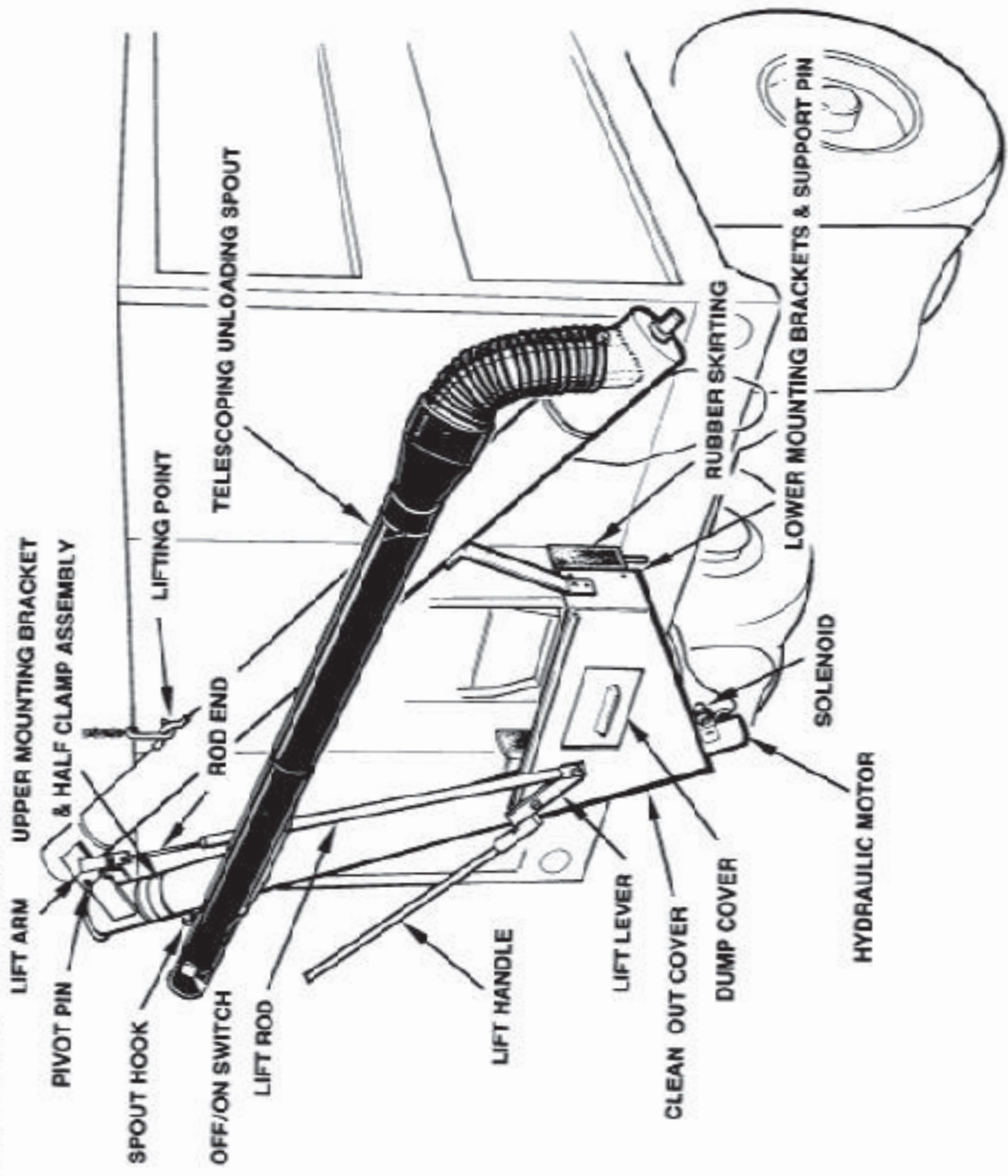
⚠ WARNING



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.

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COMPONENT IDENTIFICATION



3. Operations

Operation of the Rear Mount Drill Fill Auger requires that a general checklist be followed daily, that safety precautions be observed at all times, and that general maintenance be performed on a regular basis.

- Operator is familiar with all safety precautions.
- Proper maintenance has been performed.

OPERATIONS/SAFETY


When operating the Hydraulic Drill Fill Auger, attention should be paid to the following items:

1. All unauthorized personnel should be clear of work area.
2. Always have another person nearby to shut down the equipment in case of accident.

IMPORTANT

IN ORDER TO MAINTAIN PROPER GRAIN FLOW THROUGH THE DISCHARGE SPOUT, WE RECOMMEND THE SPOUT BE HELD AT NO LESS THAN 45 DEGREES TO THE HORIZON DURING OPERATIONS. A MORE SHALLOW ANGLE COULD PLUG THE DOWNSPOUT RESULTING IN DAMAGE TO THE EQUIPMENT.


3. When raising or lowering the upper tube, be aware of the weight shift. If tube is allowed to drop, it will result in damage to tube and/or personal injury. **KEEP FIRM GRIP ON LIFT HANDLE.**
4. Do not operate with any safety shield removed or Clean-out Door open.

CAUTION	
 BE ALERT	KEEP CHILDREN AND ALL UN-AUTHORIZED PERSONNEL CLEAR OF WORK AREA.
	DO NOT OPERATE AUGER WITH ANY SAFETY SHIELD REMOVED.
	ALWAYS HAVE ANOTHER PERSON NEARBY TO SHUT DOWN AUGER IN CASE OF ACCIDENT.
	KEEP BODY, HAIR, AND CLOTHING AWAY FROM ANY MOVING PARTS.
	SHUT DOWN AND LOCK OUT ALL POWER BEFORE SERVICING, CLEANING, OR ADJUSTING.

PRE-OPERATION CHECKLIST

Before operating the Hydraulic Drill Fill Auger for the first time, and each time it is re-installed, the operator should check the following items:

- All fasteners secured as per assembly instructions.
- Hydraulic hoses are in good condition with no leaks.
- Clean-out cover is closed and secured with retaining pin, and dump cover is in place and secure.
- Tube alignment is reasonably straight.
- Hopper and discharge spout are free of obstructions.

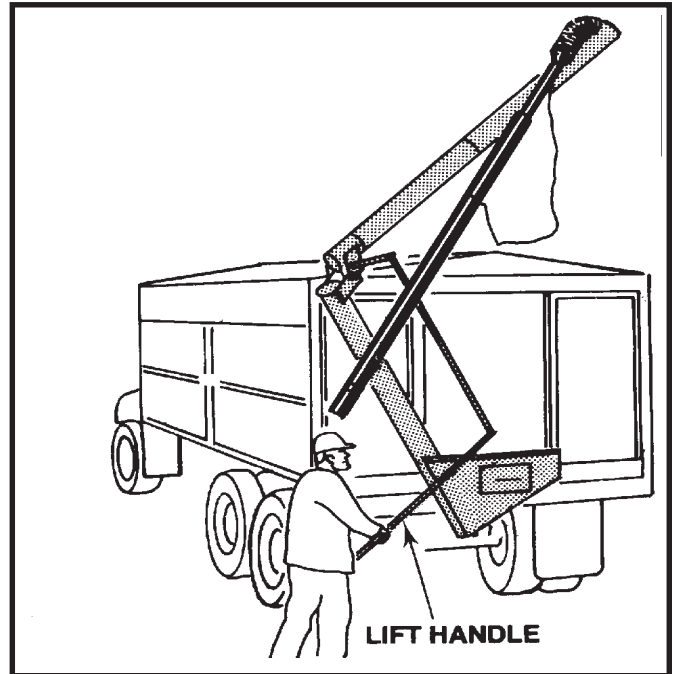
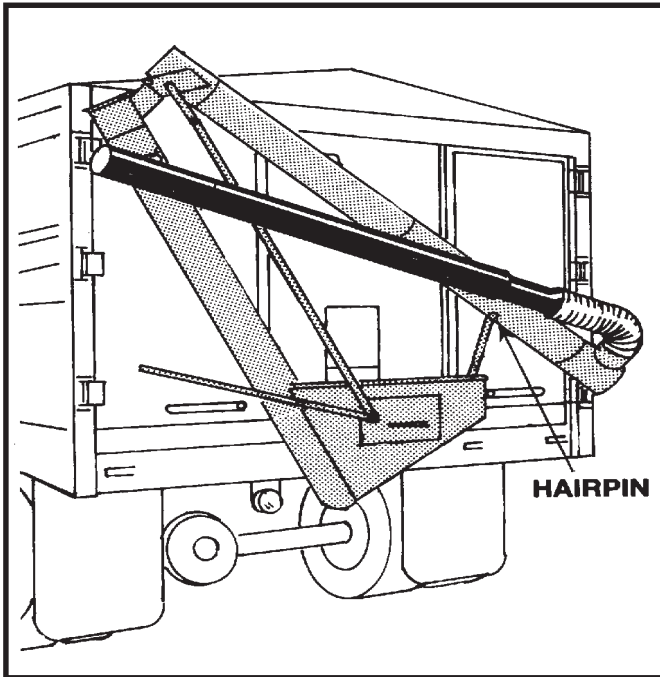
WARNING	
 BE ALERT	LOWER FLIGHTING IS UNGUARDED WHEN CLEAN OUT DOOR IS OPEN. DO NOT OPERATE UNLESS DOOR IS CLOSED AND SECURED WITH RETAINING PIN.

OPERATING

Drill fill must be locked into transport position before transporting.

To unload material from truck:

1. Drive close to seeding equipment.
2. Remove hairpin, raise and over-center lock drill fill into operating position.
3. Slip handle onto opposite end of welded rod and secure with hairpin to prevent bending when raising truck box.



4. Switch on hydraulic power, raise truck box and open end gate.

NOTE: On drill-fill augers equipped with bristle flighting, reduce flow of material to hopper or plugging will occur.

5. Position telescopic unload spout and flick switch to ON position.

CAUTION

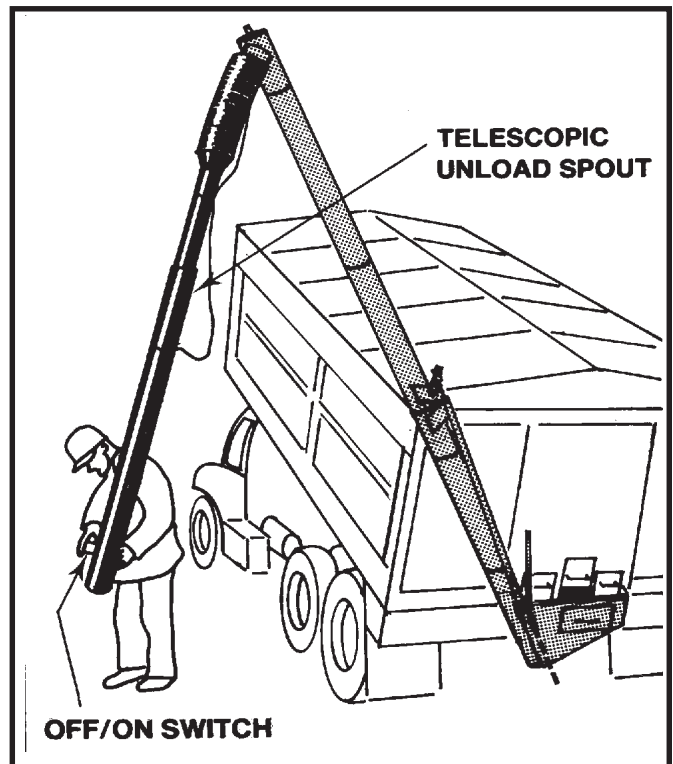


WHEN RAISING OR LOWERING UPPER TUBE SECTION, BE AWARE OF WEIGHT SHIFT. KEEP FIRM GRIP ON LIFT HANDLE.

CAUTION



SECURELY BLOCK TRUCK BOX HOIST IF BOX IS RAISED TO INSTALL OR SERVICE HYDRAULIC OR ELECTRICAL LINES TO PREVENT UNINTENTIONAL LOWERING. FAILURE TO HEED WILL RESULT IN SERIOUS INJURY.



IMPORTANT

IN ORDER TO MAINTAIN PROPER FLOW THROUGH UNLOAD SPOUT, THE SPOUT SHOULD BE HELD AT NO LESS THAN 45 DEGREES TO THE HORIZON DURING OPERATION. A MORE SHALLOW ANGLE COULD PLUG THE SPOUT, RESULTING IN DAMAGE TO THE EQUIPMENT.

5. Close truck end gate just before seeding equipment is full and empty out drill till or auger seed or fertilizer back into truck box. Open clean-out door to remove final excess material.
6. Upon completion, lower and lock drill fill in transport position.
7. Use pressurized water to wash out auger and hopper after use with fertilizer.

HYDRAULIC REQUIREMENTS

The hydraulic motor requires a minimum of 8 GPM and a maximum of 12 GPM at 1400 PSI to function properly. Oil flow in excess of 12 GPM will cause augers to creep when spout switch is shut off, in which event a flow control valve should be installed.

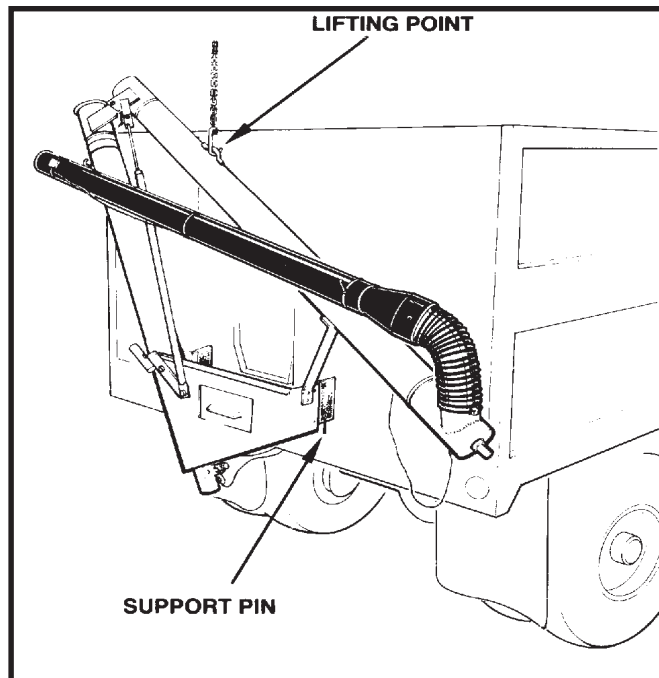
See Assembly Instructions for correct hook-up of hydraulics.

REMOVAL OF DRILL FILL

NOTE: The drill fill must be locked in transport position before removing from or attaching to truck box.

1. Before removing drill fill, use pressurized water to thoroughly wash inside auger tube and hopper. Allow water to drain and dry.
2. Disconnect hydraulic and electrical lines. Place protective covers over connections.
3. Using a suitable hoist, connect chain hook to lift point on upper tube.
4. Remove the long support pin at bottom of hopper. Swing bottom of Drill Fill away from truck box, then raise Drill Fill until welded pin on Half Clamp clears the upper mounting bracket.
5. Move drill fill away from truck and store in the flat position.

USE ABOVE PROCEDURE IN REVERSE TO ATTACH DRILL FILL.



REPLACE BROKEN SPRINGS

1. If it becomes necessary to replace springs, lock drill fill in transport position, remove from truck and lay flat on the ground.
2. Place upper tube section halfway between the transport and operating positions, as shown on page 10 in the assembly section.
3. With tension removed from springs, remove both 5/8" x 7-1/4" pins and separate upper and lower tube sections slightly. Remove broken springs.
4. Stack three good springs with large coil over spacer pipe and insert spring ends through end plate holes in upper pivot bracket. See page 10.
5. Align pivot holes. Insert a 5/8" x 7-1/4" pin through pivot holes and through the spacer pipe. Secure with cotter pins.
6. Insert other 5/8" x 7-1/4" pin through loop hole in lower-tube pivot bracket and through loops on the three springs. Secure with cotter pins.
7. Pull upper tube into transport position and lock into place with hairpin.

TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
Auger runs too slow.	<ol style="list-style-type: none"> 1. Truck engine running too slow. 2. Truck pump not producing minimum required flow and pressure. 3. Hydraulic auger motor worn. 4. Solenoid mounted wrong. 5. Hydraulic hose is too small. 	<ol style="list-style-type: none"> 1. Increase engine speed. 2. Check truck pump capacity and correct. 3. Repair or replace. 4. Mount solenoid to motor as per instructions on page 11. 5. Use 3/8" hose.
Auger won't run.	<ol style="list-style-type: none"> 1. Auger jammed. 2. No hydraulic pressure to motor. 3. No power to solenoid. 4. Burned out solenoid. 5. Ports between hydraulic motor and solenoid blocked. 6. Solenoid mounted wrong. 7. Poor ground. 	<ol style="list-style-type: none"> 1 A. Shut off and lock out power. Open cleanout door and remove excess seed or fertilizer. Make sure unload-spout is clear. 1 B. Make certain upper and lower flightings mesh properly at the joint (see ADJUST FLIGHTING page 11). 2. Check for correct attachment for hydraulic hoses and routing. 3. Correct or replace: <ul style="list-style-type: none"> • Burned fuse • Poor ground-solenoid to truck frame • Wire connections at solenoid or control switch broken 4. Replace solenoid. 5. Remove solenoid and clear out obstructions. 6. Mount solenoid to motor as per instructions on page 11. 7. Properly ground solenoid to truck frame.
Oil leaking at motor and solenoid connection.	<ol style="list-style-type: none"> 1. Solenoid bolts loose 2. O-rings damaged or not installed properly. 	<ol style="list-style-type: none"> 1. Tighten bolts. 2. Remove solenoid and check that o-rings are properly installed. Replace if damaged.
Auger creeps when Spout Switch is shut off.	<ol style="list-style-type: none"> 1. Oil flow (GPM) is too high 	<ol style="list-style-type: none"> 1. Decrease oil flow (not pressure) to hydraulic motor with use of Flow Control Valve. Flow must not exceed 12 GPM.
Solenoid won't function.	<ol style="list-style-type: none"> 1. Poor ground 2. Solenoid mounted wrong 	<ol style="list-style-type: none"> 1. Attach ground wire from solenoid to truck frame. 2. Mount solenoid to motor as per instructions on page 10.

4. Assembly

(Contact Westfield Industries Ltd. for details)



WARRANTY

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

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

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

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

WESTFIELD INDUSTRIES LTD.

ROSENORT, MANITOBA

CANADA

ROG 1WO

WESTFIELD[®]

INDUSTRIES LTD.

a division of Ag Growth Industries
ROSENORT, MANITOBA, CANADA
R0G 1W0

(204) 746-2396

visit us at: www.grainaugers.com
e-mail us at: admin@westfieldindustries.com