

OPERATOR'S MANUAL SET-UP INSTRUCTIONS & PARTS LIST

16' MAXIMUM REACH GRAVITY BOX AUGER



MARKET FARM EQUIPMENT LIMITED, R.R.#1 DASHWOOD, ONTARIO, CANADA

TEL# 519-238-2301 FAX# 519-238-6044 E-MAIL: mfeltd@execulink.com

www.marketfarmequipment.com

"SERVING THE FARM INDUSTRY SINCE 1962"

WARRANTY PROCEDURE

MARKET FARM EQUIPMENT WARRANTS THEIR MANUFACTURED PRODUCTS TO BE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF PURCHASE TO THE FIRST END USER AND IS SUBJECT TO THE FOLLOWING CONDITIONS.

- 1. Damage caused by improper use, negligence, or operation beyond rated capacity, improper set-up, adjustment, or any unauthorized modifications made by the dealer or customer, shall void this warranty.
- 2. Notification of damage or warranty claims must be submitted to Market Farm Equipment (M.F.E.) within seven (7) days of the date of failure.
- 3. All defective parts must be made available by the dealer, for inspection by M.F.E. if required, and returned at the dealer's expense.
- 4. All warranty claims must be approved by M.F.E.
- 5. The labour and freight required to replace defective parts is not reimbursable.
- 6. Exchange, credit or warranty status will be based on the results of the inspection of damaged items by the manufacturer.
- 7. Credit will be issued if and when the warranty claim is approved and <u>MUST NOT</u> be deducted from the account by the dealer.
- 8. Products and/or parts not manufactured by M.F.E. are subject to their own manufacturer's warranty conditions.

WARRANTY CONSIDERATION IS ONLY VALID WHEN THE WARRANTY REGISTRATION FORM HAS BEEN RECEIVED BY MARKET FARM EQUIPMENT.

WARRANTY REGISTRATION

MARKET FARM EQUIPMENT LIMITED R.R. 1 DASHWOOD, ONTARIO, CANADA, NOM 1NO

Fax: 519-238-6044 E-mail: mfeltd@execulink.com

Purchaser's warranty protection on this equipment is valid only when this registration form is completed by the purchaser and returned to Market Farm Equipment Limited.

Date of purchase: _____

Type of equipment:

PURCHASER'S SIGNATURE INDICATES: - Acceptance of equipment, fully assembled () unassembled () - Receipt of operator's manual - Clear understanding of warranty - Receipt of instructions on special safety equipment available - Receipt of instructions on safe and proper operating procedures PURCHASER: Name:	Model number:	Serial number:
- Receipt of operator's manual - Clear understanding of warranty - Receipt of instructions on special safety equipment available - Receipt of instructions on safe and proper operating procedures PURCHASER: Name:	PURCHASER'S SI	GNATURE INDICATES:
Name:Signature:Postal/Zip Code: Telephone number:	 Receipt of operator's man Clear understanding of w Receipt of instructions or Receipt of instructions or 	nual arranty n special safety equipment available
Mailing Address: Postal/Zip Code: Telephone number:		
Prov./State: Postal/Zip Code: Telephone number:	Signature:	
Telephone number:	Mailing Address:	
	Prov./State:	Postal/Zip Code:
Purchased from:	Telephone number:	
	Purchased from:	

THIS WARRANTY MUST BE VALIDATED BY THE MANUFACTURER
It is valid only when a copy of the registration has been received by the manufacturer at address shown.

MARKET FARM EQUIPMENT LIMITED EXPRESS WARRANTY

Market Farm Equipment Limited warrants against defects in construction and materials for a period of ONE year. We reserve the right to inspect and decide whether material or construction was faulty, or whether abuse or accident voids our guarantee.

This warranty does not cover a component which fails, malfunctions or is damaged as a result of (I) improper modification or repair, (II) accident, abuse or improper use, including loading beyond the specified maximum weights and requirements (III) improper or insufficient maintenance, or (IV) normal wear and tear.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS, IMPLIED OR STATUTORY, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

In no way shall Market Farm Equipment Limited be liable for special, direct, incidental or consequential damages of any kind, including but not limited to labour charges.

The exclusive remedy under this warranty shall be repair or replacement of the defective component at Market Farm Equipment Limited's option. This is the entire agreement between Market Farm Equipment Limited and the owner about warranty. NO M.F.E. Ltd. employee or dealer is authorized to make additional warranty on behalf of Market Farm Equipment Limited.

(Fill in the following for future reference)

Serial number:	
Date of purchase:	
Purchased from:	

SAFETY INFORMATION

- Before using auger READ and UNDERSTAND SAFETY INSTRUCTIONS.
- After hydraulic lines are connected, run auger empty to ensure the flighting is rotating in the proper direction. (if ran backwards, damage may occur)
- Auger should be empty when moving or transporting.
- Hydraulic oil leaking under pressure can cause injury. Make sure all hydraulic connections are tight. Before disconnecting hydraulic lines, relieve pressure.
- Do not adjust, clean or service auger while it is running.
- Keep all safety shields in place. Replace any safety decals that become lost or damaged.
- Do not operate the auger in a manner that it was not intended for.
- When transporting, always keep auger in its lowest position.

HYDRAULIC SYSTEM OPERATING RESTRICTIONS

MAXIMUM FLOW - 15 G.P.M. MAXIMUM PRESSURE - 1750 P.S.I.

MAXIMUM FLOW AND MAXIMUM PRESSURE conditions MUST NOT occur simultaneously. Damage will occur and warranty will be void. Use only $\frac{1}{2}$ " hydraulic hose when plumbing. Smaller hose will create heat that will burn out the hydraulic motor and warranty will be void.

Do not tee into hydraulic lift cylinders on planters or drills.





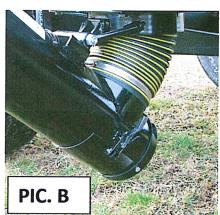
IMPORTANT

- *USE 1/2"HYDRAULIC HOSE WHEN PLUMBING.
 SMALLER DIAMETER HOSE MAY AFFECT
 PERFORMANCE OF AUGER AND POSSIBLY
 CAUSE DAMAGE TO THE MOTOR.
- *15 G.P.M. MAXIMUM HYDRAULIC INPUT TO THIS MOTOR.
- *RESTRICTING THE FLOW OR PLUGGING OF AUGER COULD RESULT IN DAMAGE TO FLIGHTING.
- *DO NOT RUN AUGER EMPTY FOR LONG PERIODS OF TIME AS THIS WILL CAUSE WEAR TO TUBE & FLIGHTING.

INSTRUCTIONS FOR MOUNTING 16' MAXIMUM REACH AUGER

- 1. Measure between the angles on the gravity box door (PIC.A) (Example: $38\frac{1}{2}$ ") Deduct $\frac{1}{2}$ " to allow for the mounting brackets. (Example: $38\frac{1}{2}$ " $\frac{1}{2}$ " = 38") This is your hopper width measurement.
- 2. Remove the hopper shell from the track support. Divide door width measurement in half. (Example: Half of 38" = 19") Measure outward from the center of the hopper. Mark the cut lines with a straight edge. Check that the measurements are accurate. Cut with a jigsaw.
- 3. Bolt hopper shell to the track support upright braces using 5/16" carriage bolts & lock nuts.
- 4. Slide the mounting brackets (#47L & #47R) onto the track support assembly, up against the hopper shell ends. Check overall measurement to see if it is the same as the measurement between the angles on the gravity box door. If measurement is correct, tighten bolts on the mounting brackets. Drill 5/16" holes using mounting brackets as a template. Bolt mounting brackets to the hopper shell using 5/16" carriage bolts & lock nuts.
- 5. Position the hopper assembly between the angles and up tight to the underside of the door lip. Secure with vise clamps. Drill 2-3/8" holes (per side) through the door angles & mounting brackets. Attach using $3/8" \times 1"$ bolts & lock nuts.
- 6. It may be necessary to reverse the winch bracket depending on the transport position of the auger. Mount winch using (2) 3/8" x 1" bolts & lock nuts. (PIC.E)
- 7. Locate the center of the top lip of the gravity box. (not the sideboards) Measure 15"- 16" in both directions from the center. (Maximum distance between holes is 32") Drill (2) 3/8" holes for 6" augers or (2) 1/2" holes for 8" augers, through the top lip and through the sideboards if required. Attach the V-cable (#3) using 3/8" or 1/2" bolts/spacer assemblies c/w lock nuts. (PIC.F)
- 8. Position the auger under the hopper so that the inlet on the auger is directly below the outlet of the hopper. Using a chain fall or tractor, safely elevate the motor end of the auger approximately 24". Lift the inlet end of the auger and secure to the swivel hanger bracket using a 1/2" x 5" bolt & lock nut. (PIC.A)
- 9. Use the quick link to attach the loose pulley to the mounting tab on the auger. (PIC.C) Run the winch cable through the pulley and attach to the winch. Follow the winch instructions on how to secure the cable. Raise the auger up high enough to insert the 18" flex tube. Attach to the inlet on the auger with the hose clamp. (PIC.B) Position the top of the flex tube over the hopper outlet as you lower the auger. Swing the auger from side to side to check proper movement.
- 10. Drill (1) 3/8" hole for 6" augers or (1) 1/2" hole for 8" augers, through the top lip centered between the door angles. (and through sideboards if required) Attach swaged end of the safety cable to the top lip of the gravity box using 3/8" or 1/2" bolt, washers & lock nut. Loop the other end through the hole on the pulley tab mounted on the auger. (PIC.C) Set to your required length and secure with a cable clamp.
- 11. Attach elbow end of the hydraulic hoses to the ports on the motor valve. Use line holders on auger to secure hoses.
- 12. Run hoses towards the front of the gravity box and secure using the loose line holder.
- 13. Determine transport position of the auger. Position the transport bracket against the upright rear corner of the gravity box. Use the bracket as a template to mark hole positions. (PIC.D) Drill 3/8" holes. Place backer plate on the inside of the gravity box and attach to the transport bracket using 3/8" x 1" bolts & lock nuts. Position side brace, drill 3/8" hole and secure with a 3/8" x 1" bolt & lock nut. Move auger into transport position and adjust cradle so that the auger rests flat on the rubber liner. The ratchet & strap secures the auger for transportation.
- 14. Install valve handle to the motor and attach the control rope. Attach the downspout to the auger spout using the hose clamp.

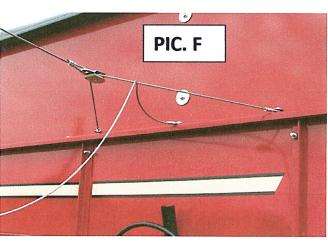


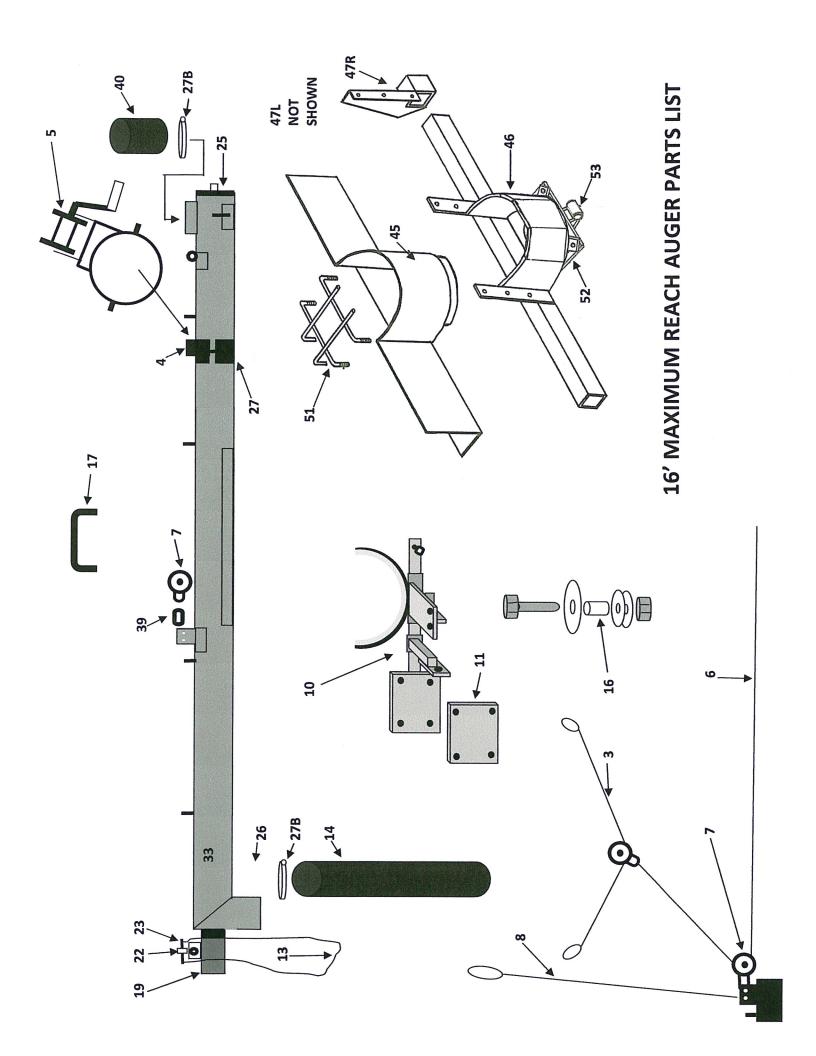










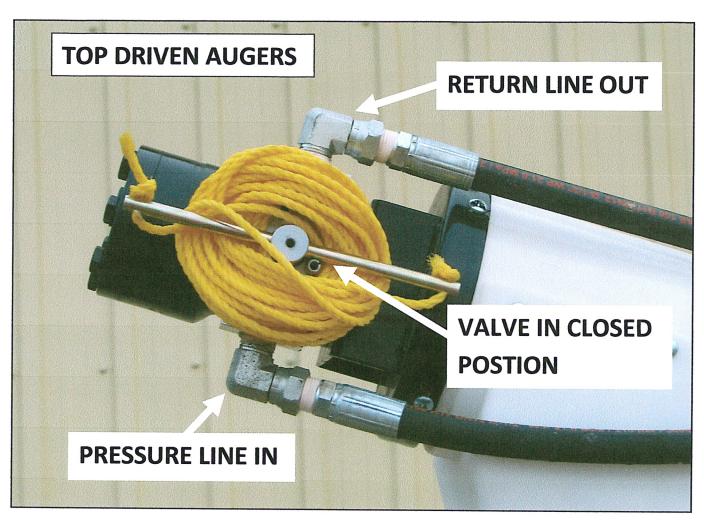


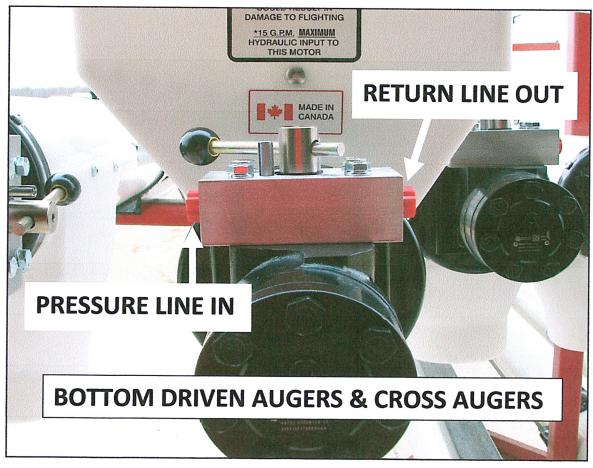
16'MAXIMUM REACH AUGER PARTS LIST

REF# DESCRIPTION (PRODUCT CODE)

3	3/16" SUPPORT CABLE (936)
4	½ - 6"CLAMP BAND (388) WINCH MOUNT #4, #27 FOR A COMPLETE ASSEMBLY
5	BRAKE WINCH (459)
6	3/16" X 14' WINCH CABLE C/W PULLEY (923)
7	2" PULLEY (531)
8	3/16" X 8' SAFETY CABLE (494)
10	6" TRANSPORT BRACKET GRAVITY BOX STYLE
11	TRANSPORT BRACKET BACKER PLATE
12	RATCHET NOT SHOWN
12A	STRAP NOT SHOWN
13	12' CONTROL ROPE (102)
14	4'X 6" FLEXIBLE DOWNSPOUT OPTIONAL TELESCOPIC DOWNSPOUT NOT SHOWN
16	SUPPORT CABLE SPACERS (1067)
17	HYDRAULIC LINE HOLDERS (532)
19	6 CU. INCH MANIFOLD HYDRAULIC MOTOR (395)
20	1/2" HYDRAULIC HOSE C/W 90 DEGREE ELBOWS NPT 22' LONG (1076) NOT SHOWN
22	MANIFOLD MOUNT VALVE ½" NPT (117)
23	VALVE HANDLE (580)
25	6" BEARING MOUNTING PLATE
27	½ - 6" CLAMP BAND (181)
27B	6" HOSE CLAMP (149)
28	3/16" CABLE CLAMP FOR SAFETY CABLE (108) NOT SHOWN
33	6" STEEL TUBE (193)
39	1/4" QUICK LINK (587)
40	6" X 18" FLEX TUBE
45	6" BLACK PLASTIC HOPPER SHELL (865B)
46	6" HOPPER TRACK SUPPORT (530) 60" TRACK SUPPORT NOT SHOWN
47L	HOPPER BRACKET LEFT (1106L)
47R	HOPPER BRACKET RIGHT (1106R)
51	6" HOPPER SAFETY GRILLE (1170)
52	6" PICTURE FRAME (699)
53	6" SWIVEL HANGER BRACKET (1299)
	COMPETE HOPPER ASSEMBLY CONSISTS OF #45, #46, #47L, #47R, #51, #52 & #53

FLIGHTING STYLES: STRAIGHT BLADE PLASTIC, 5" CUPPED PLASTIC, BRISTLE & CUPPED STEEL (SPECIFY LENGTH & AUGER STYLE)





INSTRUCTIONS FOR MOUNTING ULTRA-GLIDE AUGER ON A STRAIGHT SIDED GRAVITY BOX

Gravity Boxes with a slight slope to the door side should also use the straight side kit. The hopper should be parallel to the ground or tilted down slightly. If the hopper is tilted up, material may not flow properly.

1: Follow steps 1., 2.,3., 4. & 5. of standard mounting instructions.



NOTE:

On some gravity boxes like the RJ gravity box, the angle iron must be notched. This allows the hopper assembly to fit tightly against the back of the angle iron and under the door lip.

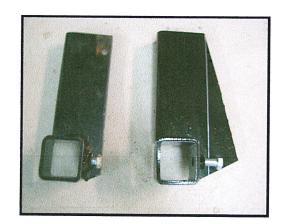
In a new auger kit that has been ordered for a straight sided box, the depth of the hopper shell has been trimmed to fit the straight sided mounting brackets. If this is not the case with your hopper shell, it can be trimmed to fit when you are trimming the hopper shell width. If you have angled mounting brackets, they can be cut to size. For the right measurement, draw a straight line down from the top rear corner. The line should be parallel to the front of the bracket. See picture below.



Picture shows hopper assembly mounted on a straight sided gravity box.

The hopper is parallel to the ground.

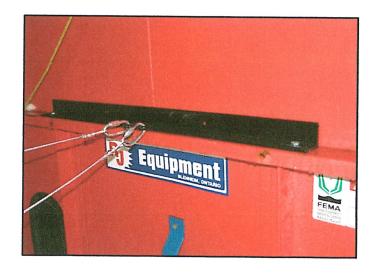
On some gravity boxes the front of the hopper may be tilted down slightly.



- 2: Follow step 6. of standard mounting instructions
- 3: Center and mount the angle iron cable support on either the sideboard extension lip (as shown in picture) or onto the flat side of the gravity box.
- 4: Follow steps 8.,9. & 10. of standard mounting instructions

NOTE: Attach winch cable & safety cable to chain links on the angle iron cable support with the supplied quick links.

5: Follow steps 11., 12., 13., 14. & 15. of standard mounting instructions



LARGE ULTRA-GLIDE HOPPER ASSEMBLY FOR DOORS *UP TO 60"* WIDE



- 1: Measure between the angle iron (A) to determine proper width of hopper needed.
- 2: Deduct 14" from (A) to determine (B) plastic hopper shell width required.

Example: If (A) is 58" (A) 58" - 14" = (B) 44"

Plastic hopper shell (B) would need to be trimmed to 44".

3: Remove plastic hopper shell from support frame. Measure equally in both directions from the center of the plastic hopper shell.

Example: If (B) is 44", you will measure 22" in each direction to determine your cut lines.

- 4: Use a square to mark cut lines on the plastic hopper shell. Cut using a jig saw.
- 5: Reassemble plastic hopper shell onto support frame. Slide the mounting brackets on each end. The hopper shell should fit tightly against the mounting brackets. (Do not drill the plastic hopper shell yet.)

LARGE ULTRA-GLIDE HOPPER ASSEMBLY FOR DOORS *UP TO 60"* WIDE



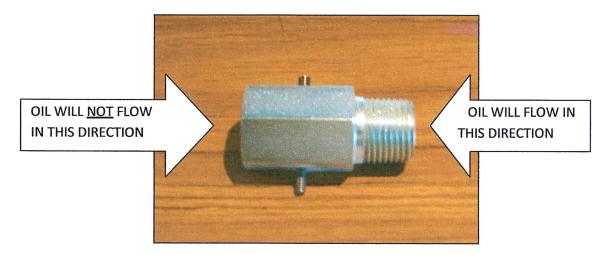
- 6: Measure overall hopper assembly width to make sure it is correct and will fit between the angle angles on your gravity box. If it is too tight, bowing will occur in the plastic hopper shell. Remove and re-trim if necessary.
- 7: Once the hopper assembly is the correct width, drill and secure the plastic hopper shell to the mounting brackets using (C) 3/16" x 1" carriage bolts & lock nuts.
- 8: Fit hopper assembly so that the plastic hopper shell is tight under the lip of the gravity box door. Secure with vise grips. Drill 3/8" holes through angle iron and mounting bracket. Attach using (D) 3/8" X 1" bolts & lock nuts.

NOTE: As all gravity boxes are not made the same, some modifications may have to be made to hardware or gravity box to mount. Inside corners may have to be caulked to avoid material leakage.

OPTIONAL VALVES FOR HYDRAULIC AUGERS

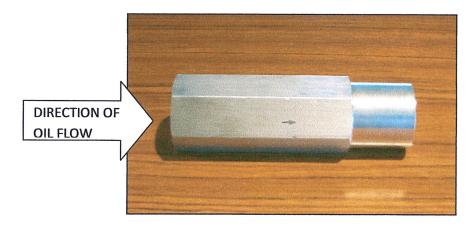
Note: These optional valves do not replace the shut-off valve on the auger.

A directional valve fitting can be installed to restrict the auger from running in the reverse direction. This valve should be installed on the return line, between the valve on motor and the tractor. Thread is ½" NPT. **RECOMMENDED FOR AUGERS THAT SHOULD NOT BE RUN IN REVERSE, AS IT MAY CAUSE DAMAGE TO THE FLIGHTING.**



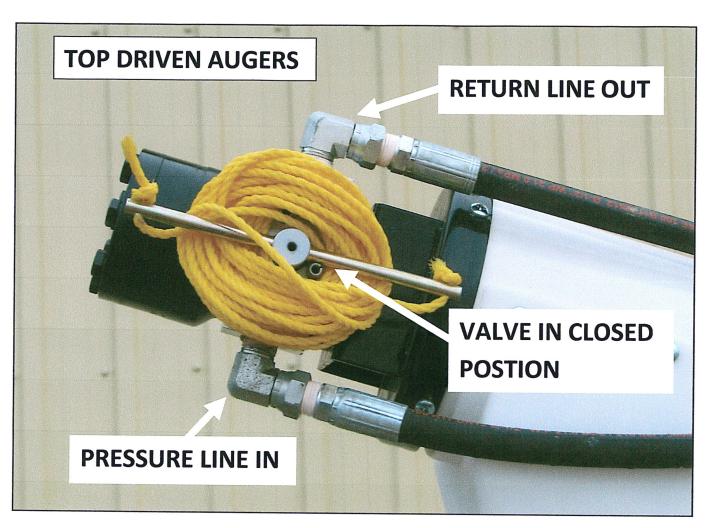
An in-line, pressure compensated, nonadjustable flow regulator valve is available for CLOSED CENTER HYDRAULIC SYSTEMS. In the controlled direction, this regulator will maintain a constant flow rate of 10 GPM. This valve should be installed on the pressure line, between the tractor and the valve on motor. Thread is ¾" NPTF (must be reduced to ½")

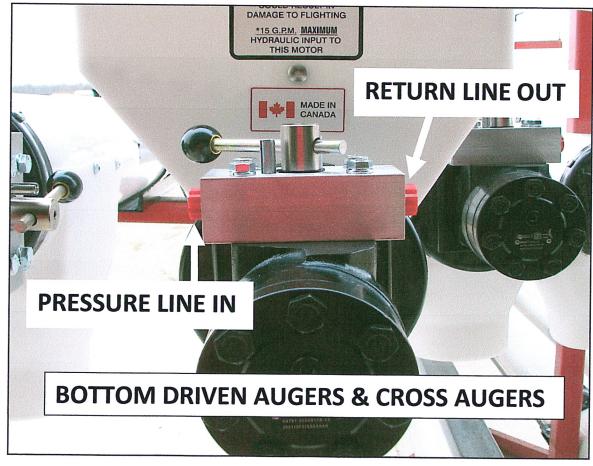
RECOMMENDED FOR AUGERS OPERATED BY LARGER TRACTORS WITH LARGER HYDRAULIC OUTPUT.



Augers operate best at 10-12 GPM & 1200-1500 PSI.

Market Farm Equipment Ltd. RR# 1 Dashwood, Ontario, Canada N0M 1N0 E-Mail mfeltd@execulink.com Web-Site www.marketfarmequipment.com





IMPORTANT OPERATING INSTRUCTIONS

- 1: <u>NEVER</u> LEAVE THE DOWNSPOUT (TELESCOPING OR FLEX)
 UNATTENDED WHILE THE AUGER IS RUNNING. IF IT IS NECESSARY TO
 LEAVE THE DOWNSPOUT, SHUT AUGER OFF.
- 2: <u>NEVER</u> HOLD THE DOWNSPOUT (TELESCOPING OR FLEX) DOWN TOO LOW. THE MATERIAL CAN BUILD UP AND PLUG THE DISCHARGE. PLUGGING AND DAMAGE TO FLIGHTING CAN OCCUR QUICKLY. TO AVOID COSTLY DOWNTIME AND REPAIR COSTS ALWAYS BE AWARE OF HOW FULL YOUR SEED/FERTILIZER HOPPERS ARE GETTING WHILE FILLING.
- 3: <u>NEVER</u> EXCEED THE MAXIMUM 15 G.P.M. HYDRAULIC INPUT. MOST AUGERS REQUIRE 9-12 GPM AT 1200-1500 PSI TO RUN PROPERLY.
- 4: <u>NEVER</u> RUN AUGER EMPTY FOR LONG PERIODS OF TIME AS THIS WILL CAUSE WEAR TO THE TUBE & FLIGHTING.
- 5: OPTIONAL FLOW REGULATOR VALVES (10 GPM MAX.) AND DIRECTIONAL VALVES ARE AVAILABLE.
- 6: OPTIONAL ELECTRIC SOLENOID VALVES ARE AVAILABLE WITH CABLE OR REMOTE SHUT-OFF/ON FEATURES.

PLEASE READ ALL SAFETY/IMPORTANT DECALS ON THE AUGER.
UNDERSTANDING THE AUGERS REQUIREMENTS AND PROPER USE WILL
ENSURE A LONG AND TROUBLE FREE LIFE FOR THE AUGER.

IMPORTANT

YOUR AUGERS DOWNSPOUT SHOULD NEVER BE SET DOWN OR LEFT UNATTENDED WHILE THE AUGER IS RUNNING.

MATERIAL CAN BUILD UP QUICKLY CAUSING THE DOWNSPOUT AND AUGER TO PLUG. THIS CAN DAMAGE THE AUGERS FLIGHTING AND MOTOR.

ALWAYS TURN AUGER OFF BEFORE LEAVING THE DOWNSPOUT TO ATTEND TO OTHER MATTERS.



