MARKET FARM EQUIPMENT LTD.

OPERATOR'S MANUAL
SET-UP INSTRUCTIONS
&
PARTS LIST

ULTRA-GLIDE PLASTIC 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 MUST NOT 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, N0M 1N0
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: _____

Model number: _____ **Serial number:** _____

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: _____

Signature: _____

Mailing Address: _____

Prov./State: _____ **Postal/Zip Code:** _____

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

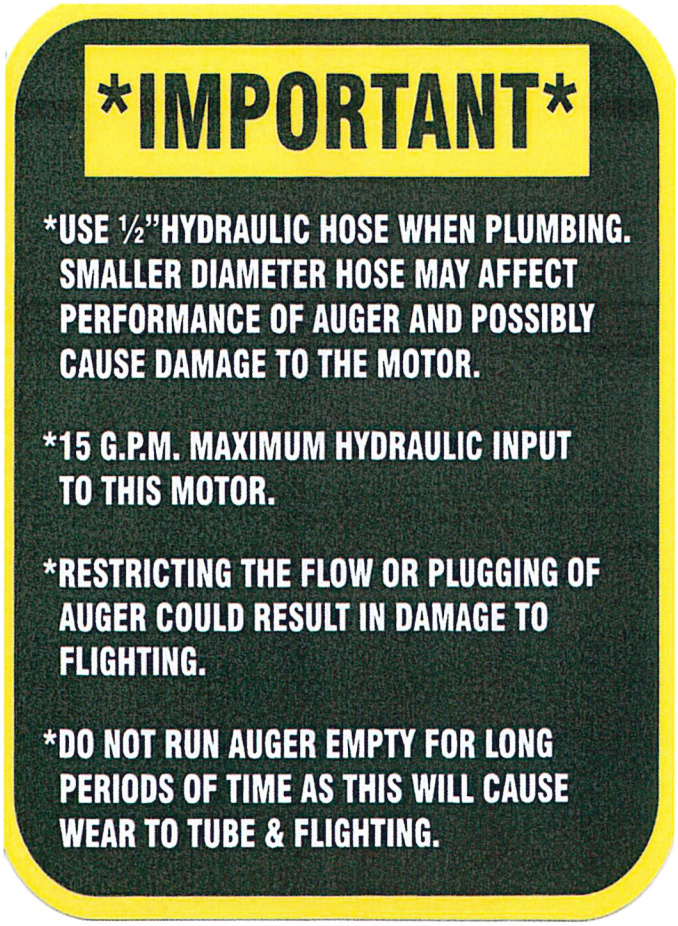
MAXIMUM FLOW – 20 G.P.M. MAXIMUM PRESSURE – 2500 P.S.I.

MAXIMUM FLOW AND MAXIMUM PRESSURE conditions MUST NOT occur simultaneously. Damage will occur and warranty will be void. Use only ½" 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.







INSTRUCTIONS FOR MOUNTING 6" OR 8" ULTRA GLIDE AUGER

1. Measure between angles on gravity box door (Fig. A, example: 38 ½"). Deduct ½" to allow for mounting brackets (example: 38 ½" - ½" equals 38") this is your hopper width measurement.

2. Find center of hopper and measure outward equal amounts totalling the door width less ½" (example: 38½" door width less ½" = 38" ÷ 2 = 19"). Cut hopper at that measurement.

3. Bolt hopper to track support assembly upright braces with 5/16" x 3/4" carriage bolts and nuts (already drilled).

4. Slide the mounting brackets (47L & 47R) onto the track support assembly up against the hopper ends. Check to see if outside measurement is the same as between door angles (example: 38 ½"). If measurement is correct, tighten set bolts on mounting brackets against support tube. Drill holes in hopper using mounting brackets as templates and attach with 5/16" x 3/4" carriage bolts.

5. Mount complete hopper assembly to gravity box with clamps making sure hopper is tight to underside of door lip. Drill 2 - 3/8" holes, per side, through anlges and mounting brackets and attach using 3/8" x 1" bolts and lock nuts.

6. When mounting winch (5) to auger it may be necessary to reverse winch bracket (4) depending on transport position of auger.

7. Locate hole positions on top lip of gravity box, centered on door, by measuring 15" - 16" either side of center point (maximum distance between holes is 32"). Drill 2 - 3/8" or 1/2" holes through top lip of box (also through sideboard if required). Attach the V-cable (3) using 3/8" or 1/2" x 1 ¼" bolts with nuts, 3/8" or 1/2" flat washers, spacers and heavy 3/8" washers as shown in Fig. 2.

8. Lay the auger under the hopper so the inlet (41) on the auger is directly below the outlet of the hopper. Elevate the motor end of the auger using a saw horse, pail, etc. Lift the inlet end of the auger and attach the clampband mount (42) to the swivel hanger bracket (53) with a ½" x 5" bolt and lock nut. (See Fig. B)

9. Attach loose pulley (7) to pulley mounting tab on auger with quick link (39) . Thread winch cable (6) through pulley (7) on auger and attach to winch assembly (5) with rope keeper. Winch the auger up high enough to slide on the 18" x 6" or 8" inlet flex tube (40) and attach to inlet with hose clamp (bottom only). Lower the auger making sure the flex tube goes over the hopper outlet. Swing auger from side to side to check proper movement.

10. Attach looped end of safety cable (8) to top lip of gravity box with 3/8" or 1/2" x 1" bolt and nut, use both ½" and 3/8" washers on top of cable (customer may have to drill hole, centered between angle irons). Loop other end of safety cable through hole in pulley mounting tab, set required length, then secure with 3/16" or 1/4" cable clamp. SAFETY CABLE LENGTHS (loop to loop):
14' & 15' augers - loops should be at ends of cable.

11. Attach hose holder (19) to front of gravity box on lower formed support on the same side as you have auger mounted.

12. Attach 90° elbow ends on the hoses to valve. Attach to auger using line holders.

13. Move auger to transport position and install transport bracket (10) on gravity box. Position transport bracket, against upright rear corner of gravity box, then drill holes using bracket as a template. Place backer plate (11) on inside of gravity box and attach to transport bracket using 4 - 3/8" x 1" bolts and nuts. Place auger in adjustable cradle then tighten set bolt.

14. Install valve handle (17) to valve and attach control rope (13).

15. Attach downspout (14) using hose clamp (27B).

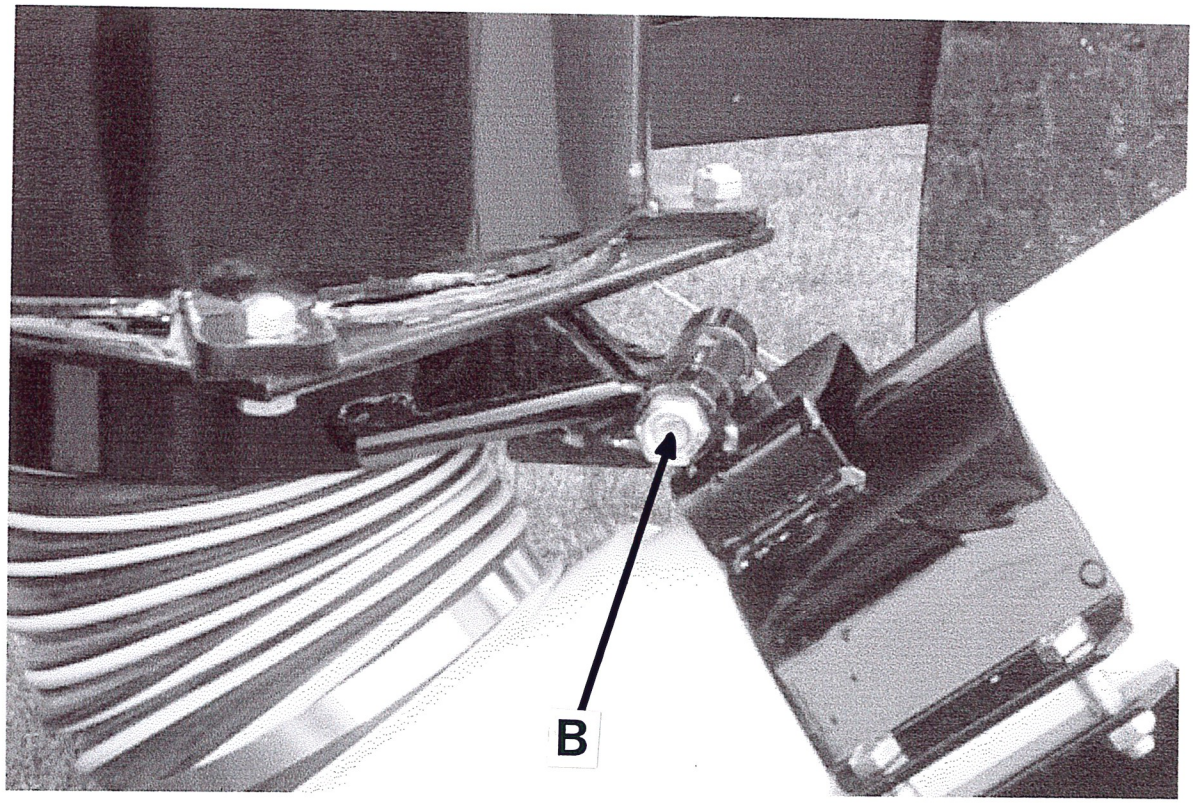
INSTRUCTIONS FOR ULTRA GLIDE RETRO FIT KIT

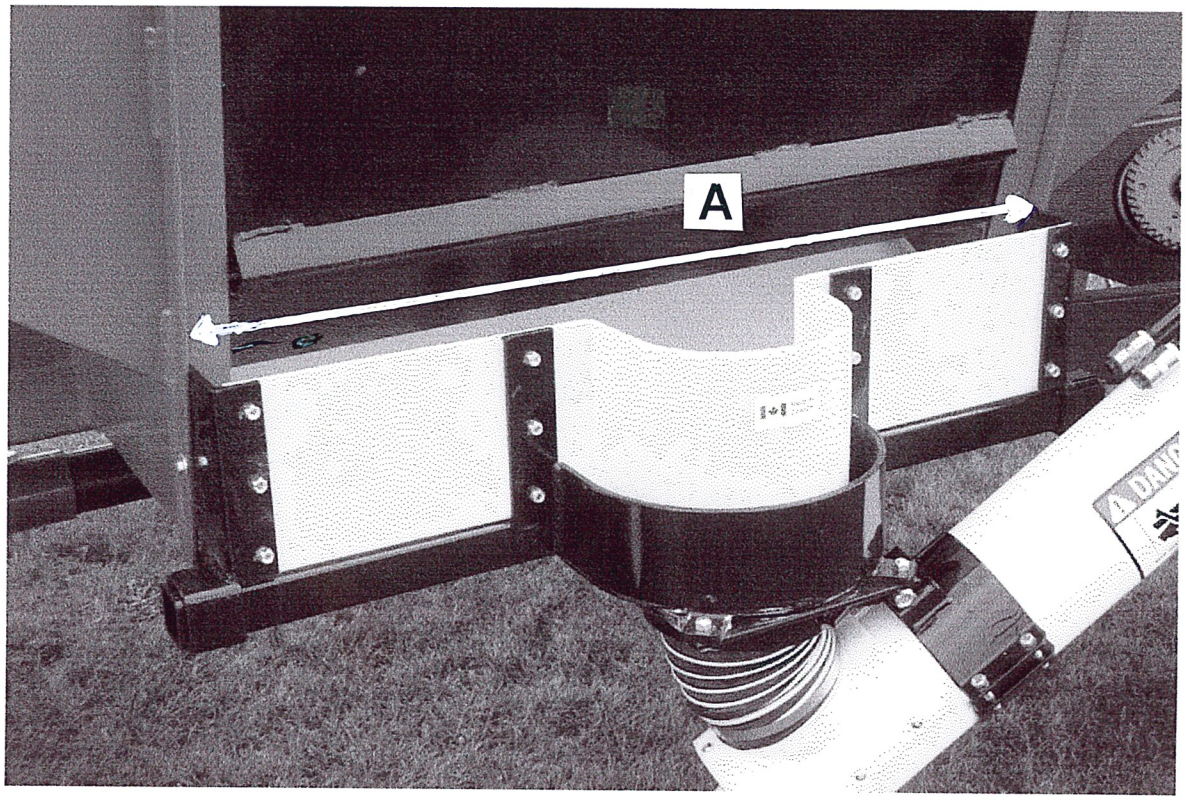
1. Expose 23" of flighting by cutting plastic tube off square.

2. Glue 24" section of Ultra Glide inlet onto tube. Make sure inlet is straight up and spout is straight down. USE ONLY PVC GLUE.

3. Use Ultra Glide auger instruction sheets to mount hopper.

INCLUDES: 24" tube complete with inlet, PVC coupler, Clampband auger mount, Plastic clean out, 1 - Hopper assembly complete with wings, 1 - 16" flex tube complete with hose clamp.

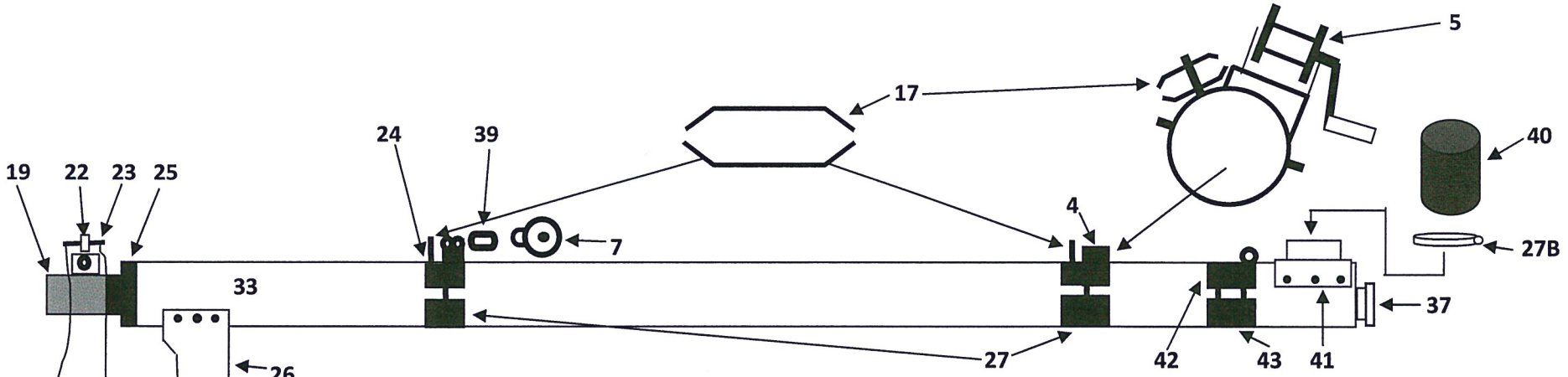

B

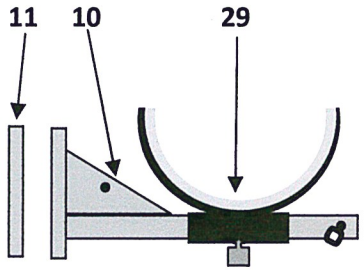

A

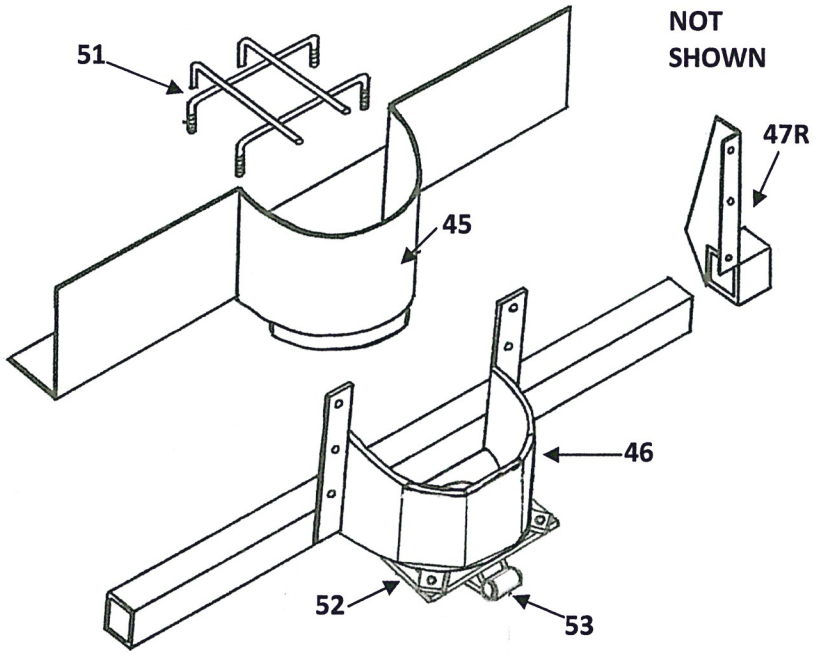
6"ULTRA-GLIDE AUGER PARTS LIST

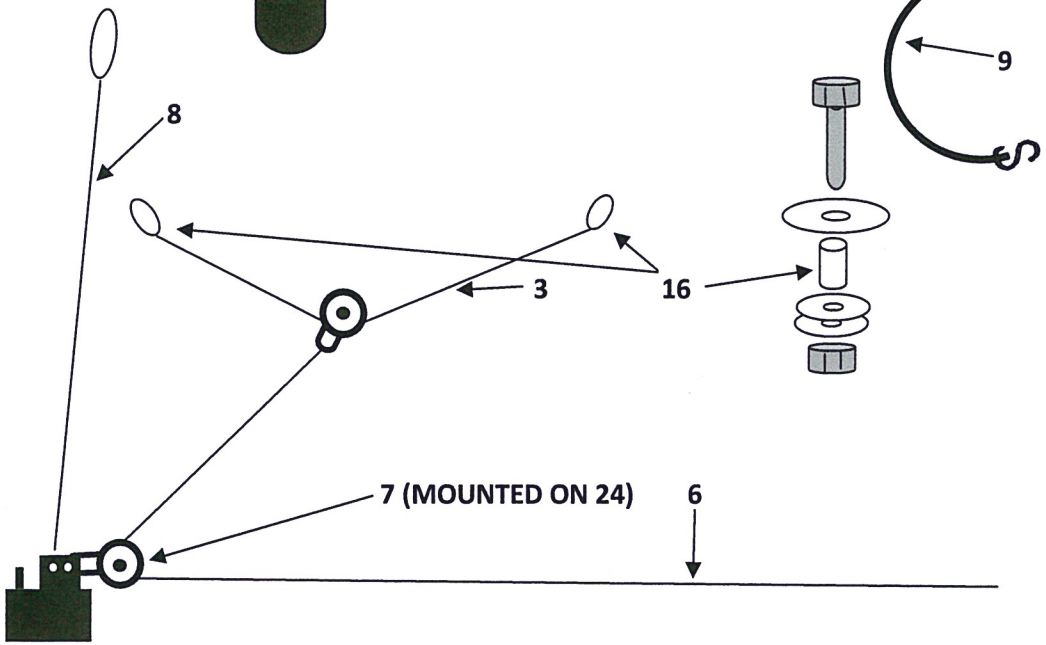
REF#	DESCRIPTION (PRODUCT CODE)
3	3/16" SUPPORT CABLE (936)
4	½ CLAMP BAND (WINCH MOUNT) (#4, #27 & #17 FOR A COMPLETE ASS.) (388)
5	BRAKE WINCH (459)
6	3/16" X 14' WINCH CABLE C/W PULLEY (923)
7	2" PULLEY (531)
8	3/16" X 8' SAFETY CABLE (494)
9	15" RUBBER TARP STRAP (600)
10	TRANSPORT BRACKET (GRAVITY BOX STYLE) (#10, #11 & #29 FOR A COMPLETE ASS.) (136)
11	TRANSPORT BRACKET BACKER PLATE
13	12' CONTROL ROPE (102)
14	4'X 6" DOWNSPOUT (148) OPTIONAL TELESCOPIC DOWNSPOUT NOT SHOWN
16	SUPPORT CABLE SPACERS (1574)
17	HYDRAULIC LINE HOLDERS (532)
19	6 CU. INCH MANIFOLD HYDRAULIC MOTOR (395)
20	MKT-264 HYDRAULIC HOSE ASSEMBLY 1/2" x 22' LONG (1076)
22	MANIFOLD MOUNT VALVE ½" NPT (117)
23	VALVE HANDLE (580)
24	½ CLAMP BAND (PULLEY MOUNT) (#24, #27 & #17 FOR A COMPLETE ASS.) (919)
25	6" MOTOR MOUNTING PLATE (198)
26	6" AUGER DISCHARGE SPOUT (613)
27	½ - 6" CLAMP BAND (181)
27B	6" HOSE CLAMP (149)
28	3/16" CABLE CLAMP FOR SAFETY CABLE (108) NOT SHOWN
29	RUBBER PROTECTIVE STRIP (414B)
33	RAW 6" PLASTIC TUBE (193) SPECIFY 12', 14' OR 15' & AUGER STYLE
37	6" CLEANOUT END CAP ASSEMBLY(898)
38	THREADED PLUG ONLY (898B)
39	¼" QUICK LINK (587)
40	6" X 18" FLEX HOSE (1576)
41	6" PLASTIC INLET (866)
42	6" AUGER MOUNT ½ CLAMP BAND (#42 & #43 FOR A COMPLETE ASSEMBLY) (1155)
43	½ - 6" CLAMP BAND (552)
45	6" ULTRA-GLIDE PLASTIC HOPPER SHELL (865)
46	6" HOPPER TRACK SUPPORT (530) 60" TRACK SUPPORT NOT SHOWN
47L	**ULTRA-GLIDE HOPPER END LEFT (1106L) DOORS UP TO 38½" WIDE
47R	**ULTRA-GLIDE HOPPER END RIGHT (1106R) DOORS UP TO 38½" WIDE
51	6" HOPPER SAFETY GRILLE (1170)
52	6" ULTRA-GLIDE RETAINER FRAME (1215)
53	6" ULTRA-GLIDE SWIVEL HANGER BRACKET (1299)
	COMPETE HOPPER ASSEMBLY CONSISTS OF #45, #46, #47L, #47R, #51, #52 & #53
	**ULTRA-GLIDE HOPPER END LEFT (1252L) DOORS BETWEEN 39"-60" WIDE
	**ULTRA-GLIDE HOPPER END RIGHT (1252R) DOORS BETWEEN 39"-60" WIDE
	ALL NUTS & BOLTS SOLD SEPERATELY

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









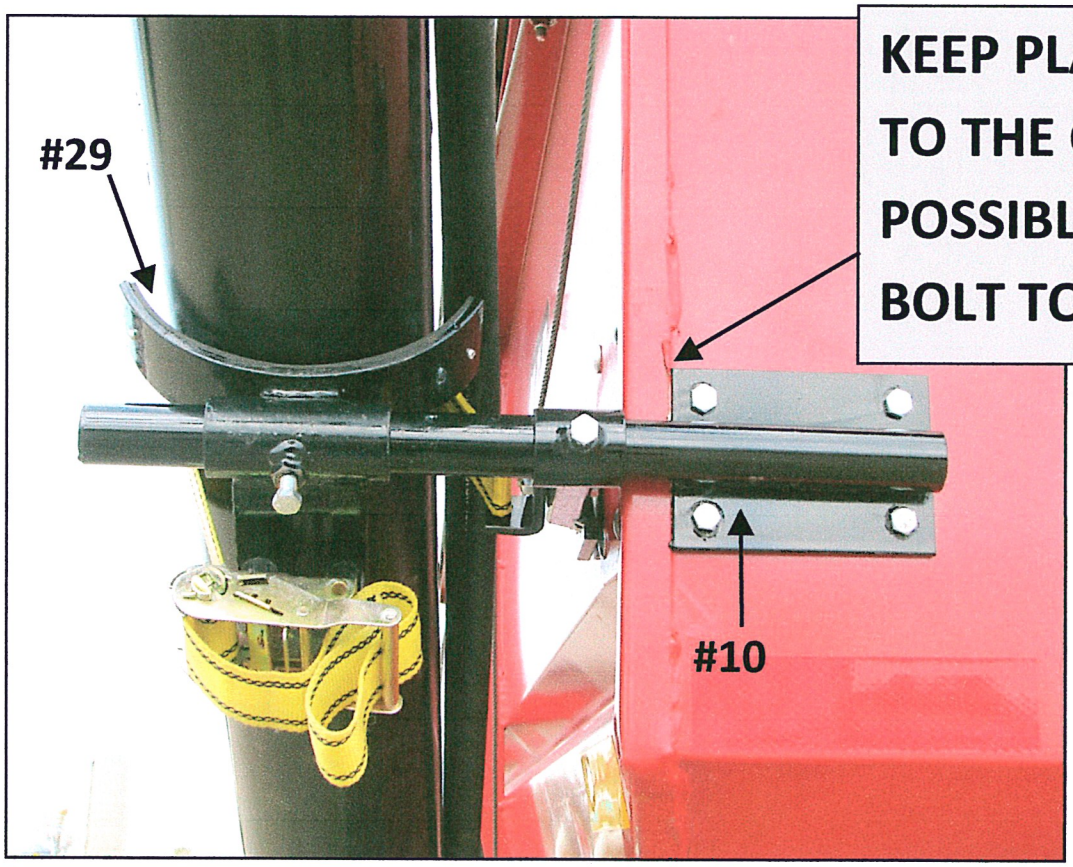
ULTRA-GLIDE AUGER PARTS LIST

8"ULTRA-GLIDE AUGER PARTS LIST

REF#	DESCRIPTION (PRODUCT CODE)
3	1/4" SUPPORT CABLE (1169)
4	½ - 8" CLAMP BAND (WINCH MOUNT) (#4, #27 & #17 FOR A COMPLETE ASS.) (113)
5	BRAKE WINCH (459)
6	1/4" X 14' WINCH CABLE C/W PULLEY (1560)
7	2 ½" PULLEY (376)
8	1/4" X 8' SAFETY CABLE (1561)
9	15" RUBBER TARP STRAP (600)
10	8" TRANSPORT BRACKET C/W BACKER
10A	RATCHET C/W STRAP (#1095)
13	12' CONTROL ROPE (102)
14	4'X 8" DOWNSPOUT (685) OPTIONAL TELESCOPIC DOWNSPOUT NOT SHOWN
16	SUPPORT CABLE SPACERS (1067)
17	HYDRAULIC LINE HOLDERS (532)
19	6 CU. INCH MANIFOLD HYDRAULIC MOTOR (395)
20	MKY-264 HYDRAULIC HOSE ASSEMBLY 1/2" x 22' LONG (1076)
22	MANIFOLD MOUNT VALVE ½" NPT (117)
23	VALVE HANDLE (580)
24	½ - 8"CLAMP BAND PULLEY MOUNT (#24, #27 & #17 FOR A COMPLETE ASS.) (1058)
25	8" MOTOR MOUNTING PLATE (1014)
26	8" AUGER DISCHARGE SPOUT (928)
27	½ - 8" CLAMP BAND (522)
27B	8" HOSE CLAMP (779)
28	1/4" CABLE CLAMP FOR SAFETY CABLE (108B) NOT SHOWN
29	RUBBER PROTECTIVE STRIP (414B)
33	RAW 8" PLASTIC TUBE (528) SPECIFY 12', 14' OR 15' & AUGER STYLE
37	8" CLEANOUT END CAP ASSEMBLY(1126)
38	THREADED PLUG ONLY (898B)
39	5/16" QUICK LINK (587B)
40	8" X 18" FLEX HOSE (1577)
41	8" PLASTIC INLET (928)
42	8" AUGER MOUNT ½ CLAMP BAND (1562) #42 & #43 FOR A COMPLETE ASSEMBLY
43	½ - 8"CLAMP BAND (522)
45	8" ULTRA-GLIDE PLASTIC HOPPER SHELL (1093)
46	8" HOPPER TRACK SUPPORT (1536)
47L	**ULTRA-GLIDE HOPPER END LEFT (1106L) DOORS UP TO 38½" WIDE
47R	**ULTRA-GLIDE HOPPER END RIGHT (1106R) DOORS UP TO 38½" WIDE
51	8" HOPPER SAFETY GRILLE (1170)
52	8"ULTRA-GLIDE RETAINER FRAME (1531)
53	8"ULTRA-GLIDE SWIVEL HANGER BRACKET (1300)
	COMPLETE HOPPER ASSEMBLY CONSISTS OF #45, #46, #47L, #47R, #51, #52 & #53
	**ULTRA-GLIDE HOPPER END LEFT (1252L) DOORS BETWEEN 39"-60"
	**ULTRA-GLIDE HOPPER END RIGHT (1252R) DOORS BETWEEN 39"-60"
	ALL NUTS & BOLTS SOLD SEPERATELY

FLIGHTING STYLES: STRAIGHT BLADE PLASTIC, 7" CUPPED PLASTIC, BRISTLE & CUPPED STEEL (SPECIFY LENGTH & AUGER STYLE)

8” TRANSPORT BRACKET



KEEP PLATE AS CLOSE TO THE CORNER AS POSSIBLE. DRILL AND BOLT TO REAR WALL





SLIDE BRACE OVER UNTIL IT SITS FLUSH ON THE GRAVITY BOX WALL. DRILL AND BOLT TO WALL

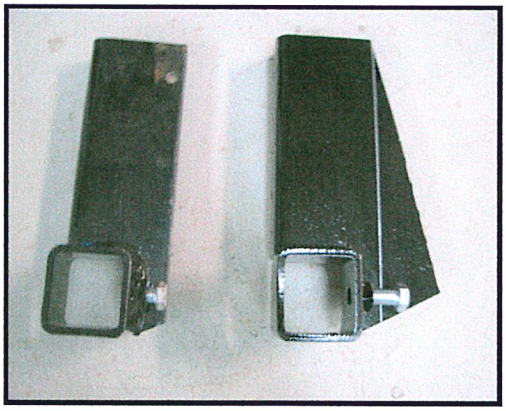
INSTRUCTIONS FOR MOUNTING ULTRA-GLIDE AUGER ON A STRAIGHT SIDED GRAVITY BOX

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.

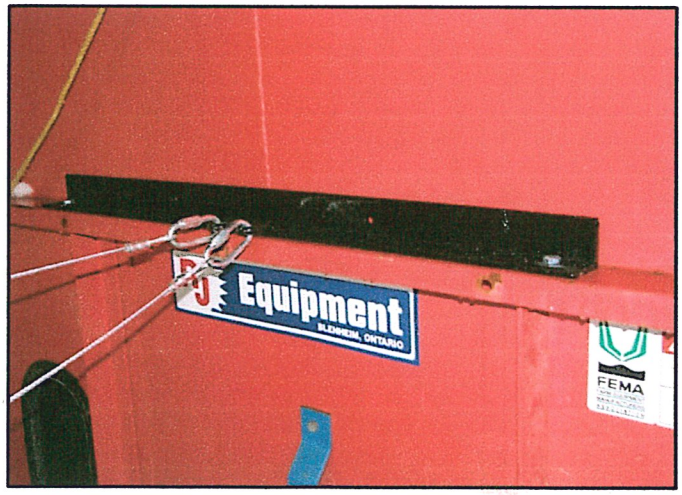
2: Follow step 6. of standard mounting instructions

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.

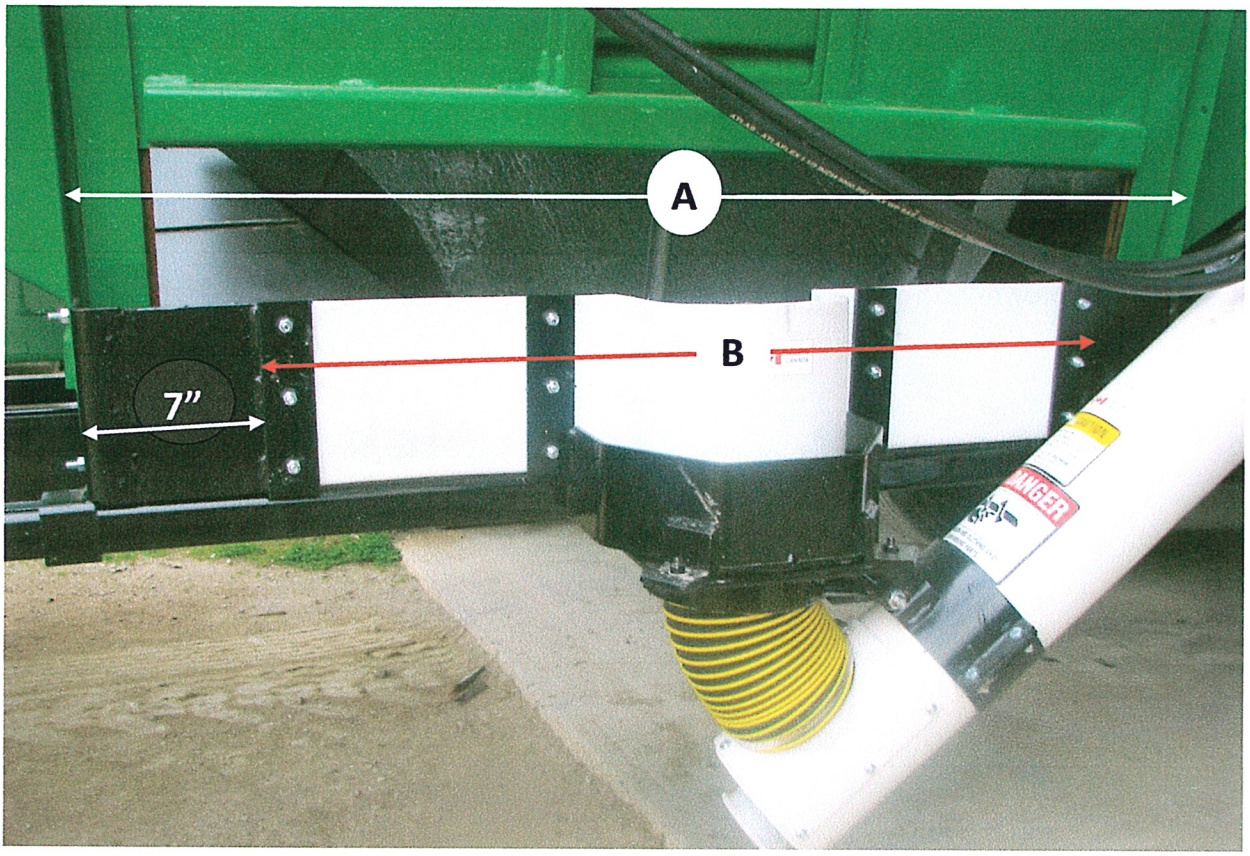
4: Follow steps 8.,9. & 10. of standard mounting instructions

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.

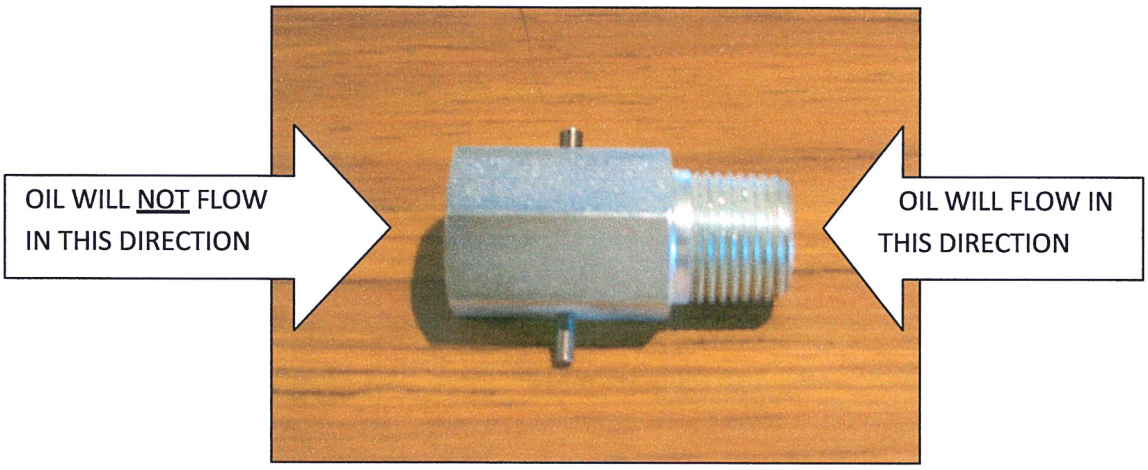
8: Fit hopper assembly so that the plastic hopper shell is tight under the lip of the gravity box door. Secure with vise grips. Drill 3/8" holes through angle iron and mounting bracket. Attach using (D) 3/8" X 1" bolts & lock nuts.

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

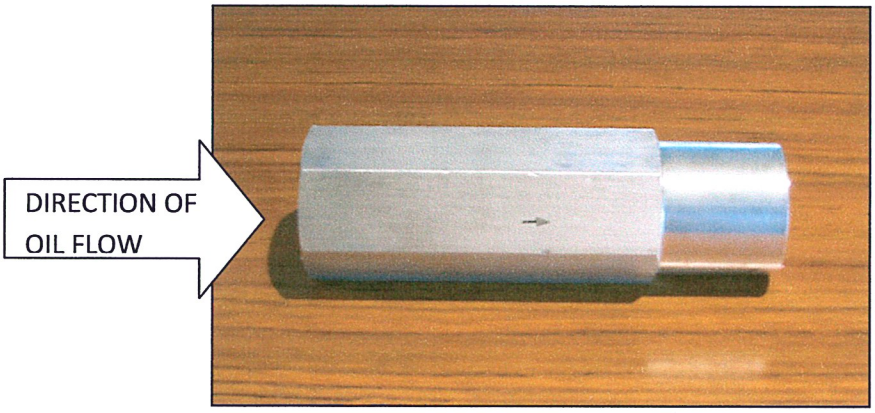
Note: These optional valves do not replace the shut-off valve on the auger.

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.**



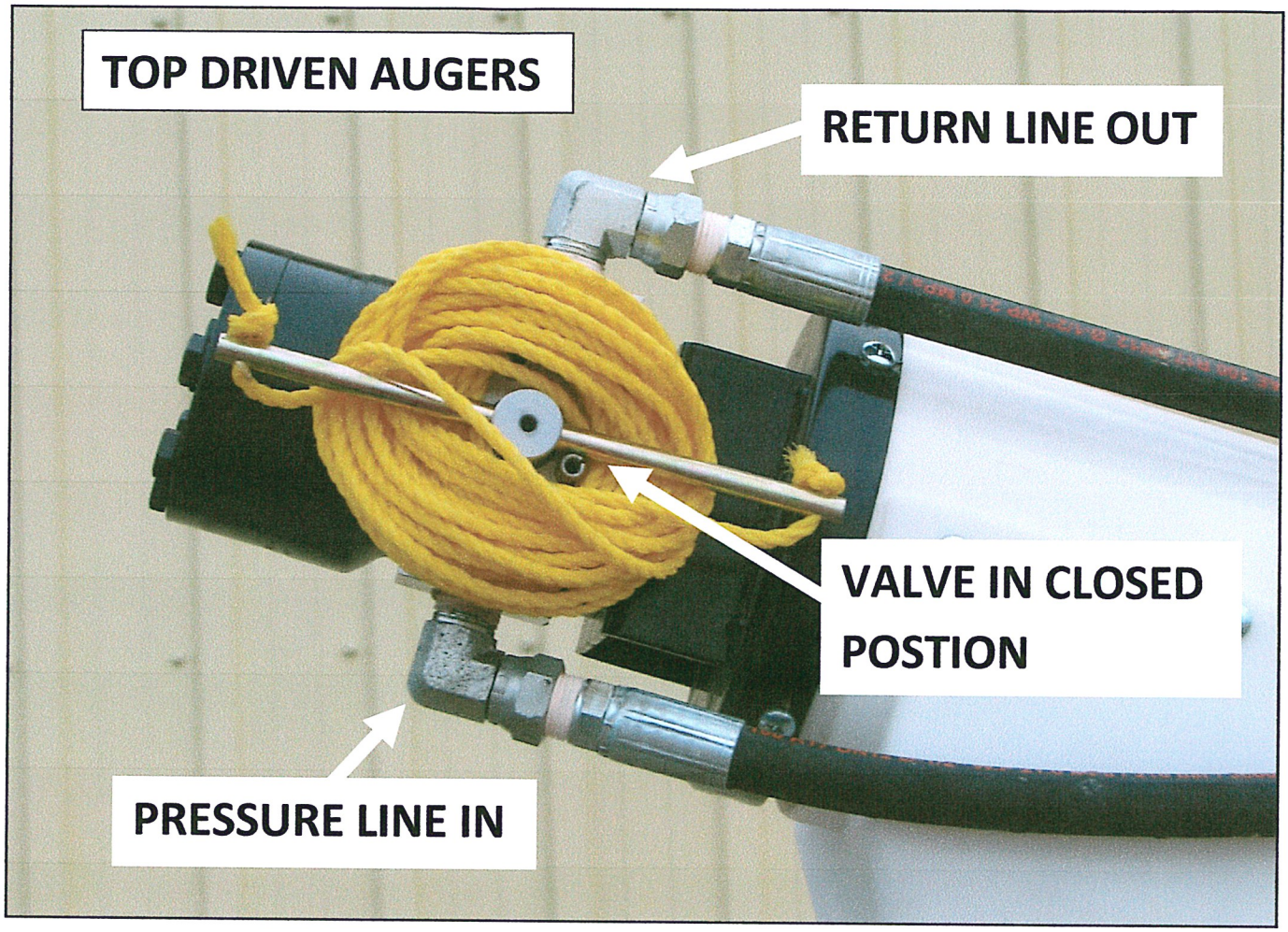
An in-line, pressure compensated, nonadjustable flow regulator valve is available for CLOSED CENTER HYDRAULIC SYSTEMS. In the controlled direction, this regulator will maintain a constant flow rate of 10 GPM. This valve should be installed on the pressure line, between the tractor and the valve on motor.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

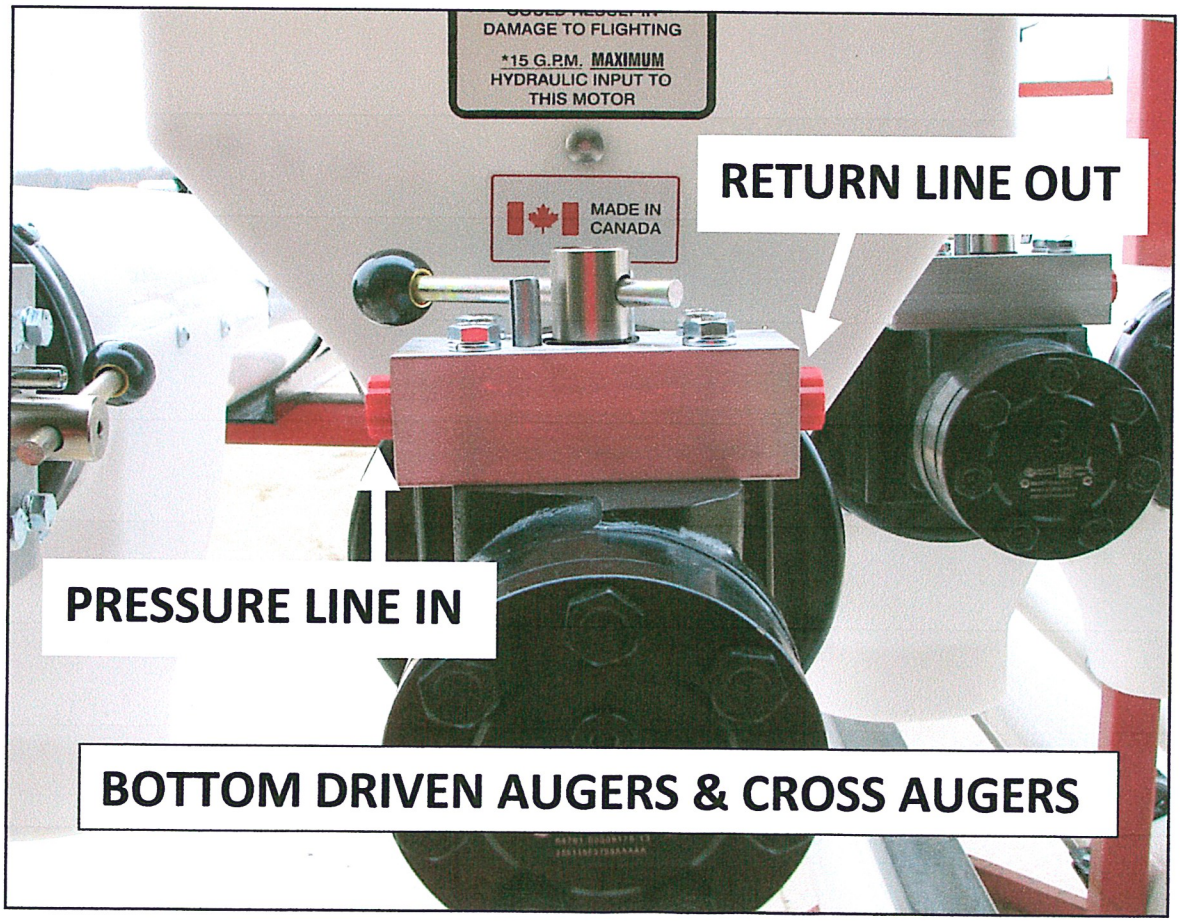
RECOMMENDED FOR AUGERS OPERATED BY LARGER TRACTORS WITH LARGER HYDRAULIC OUTPUT.



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


TOP DRIVEN AUGERS
RETURN LINE OUT
VALVE IN CLOSED POSTION
PRESSURE LINE IN


DAMAGE TO FLIGHTING
*15 G.P.M. MAXIMUM HYDRAULIC INPUT TO THIS MOTOR
MADE IN CANADA
RETURN LINE OUT
PRESSURE LINE IN
BOTTOM DRIVEN AUGERS & CROSS AUGERS

IMPORTANT OPERATING INSTRUCTIONS

1: NEVER LEAVE THE DOWNSPOUT (TELESCOPING OR FLEX) UNATTENDED WHILE THE AUGER IS RUNNING. IF IT IS NECESSARY TO LEAVE THE DOWNSPOUT, SHUT AUGER OFF.

2: NEVER 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: NEVER EXCEED THE MAXIMUM 15 G.P.M. HYDRAULIC INPUT. MOST AUGERS REQUIRE 9-12 GPM AT 1200-1500 PSI TO RUN PROPERLY.

4: NEVER 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.



