OPERATOR'S MANUAL
SET-UP INSTRUCTIONS
&
PARTS LIST

VERTICAL AUGER FOR 12 ROW JD 1770

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

TEL# 519-238-2301 FAX# 519-238-6044 E-MAIL: natashagreen13@hotmail.com

www.marketfarmequipment.com

"SERVING THE FARM INDUSTRY SINCE 1962"

WARRANTY PROCEDURE

MARKET FARM EQUIPMENT WARRANTS THEIR MANUFACTURED PRODUCTS TO BE FREE 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
71796A BLUEWATER HIGHWAY, 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

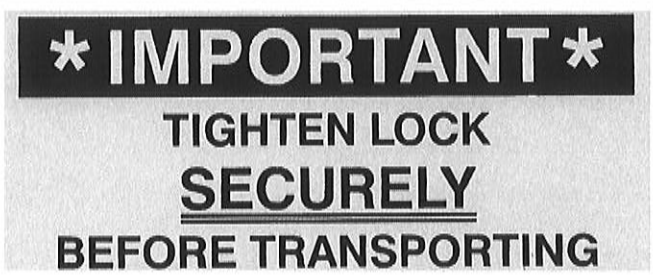
- Before using auger READ and UNDERSTAND SAFETY INSTRUCTIONS.
- After hydraulic lines are connected, run auger empty to ensure the flighting is rotating in the proper direction. (if ran backwards, damage may occur)
- Auger should be empty when moving or transporting.
- Hydraulic oil leaking under pressure 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.

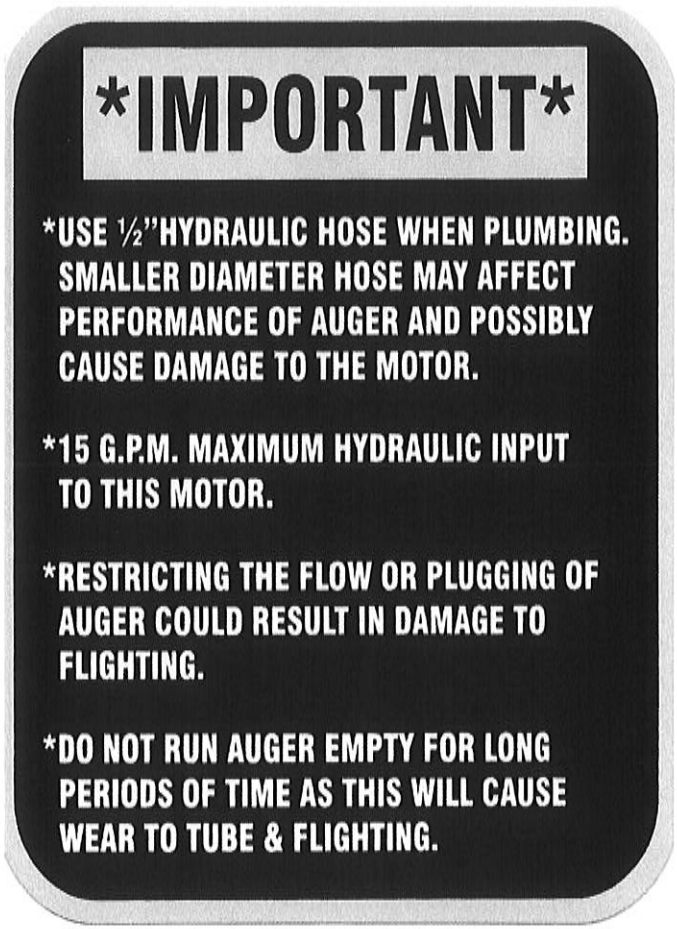
HYDRAULIC SYSTEM OPERATING RESTRICTIONS

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

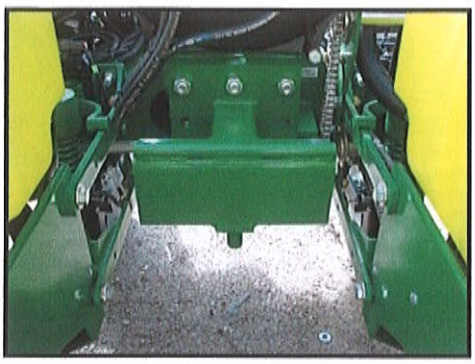
MAXIMUM FLOW AND MAXIMUM PRESSURE conditions MUST NOT occur simultaneously. Damage will occur and, warranty will be void. Use only ½" hydraulic hose when plumbing. A smaller hose will create heat that will burn out the hydraulic motor, and, warranty will be void.

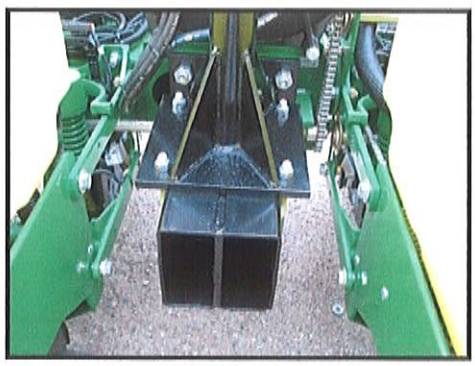
Do not tee into hydraulic lift cylinders on planters or drills.



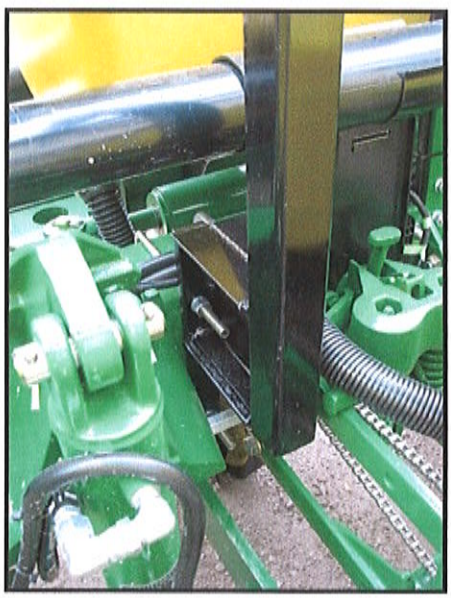


14' VERTICAL AUGER FOR 12 ROW JD 1770 PLANTER MOUNTING INSTRUCTIONS





1: Remove weigh bar bracket. Using 4 of the 5/8" bolts, attach the SUB-FRAME (#8) and tighten securely.
2: Mount MAIN POST (#7) to SUB-FRAME using ½" x 6" u-bolts, lock washers & nuts (#13) and tighten securely. Plate on the MAIN POST should be 3" in from end of the SUB-FRAME.
3: Slide SWING ARM (#2) on to MAIN POST.



4: Mount TRANSPORT BRACKET POST (#10) to the planter frame, app. 51" left of center, (beside lift wheel) using ½" x 7" u-bolt, lock washers & nuts. Make sure that the post is not up against any moving parts.
5: Slide TRANSPORT BRACKET ARM (#11) on to the TRANSPORT BRACKET POST. Secure by tightening 3/8" bolts on rear of arm.
6: Slide WEDGELOCK TAB RECEIVER (#9) into the TRANSPORT BRACKET ARM. Do not tighten ½" bolt at this time.
8: Clamp bands positions on auger are pre-set. <u>DO NOT ADJUST</u>

9: Slide HEIGHT ADJUSTER TUBE (#3) into SWING ARM.

10:Swing auger into transport position and place WEDGELOCK TAB (#31) on auger, into the WEDGELOCK TAB RECEIVER. You can now adjust the height of the WEDGELOCK TAB RECEIVER and tighten ½" bolt.

11: Attach VALVE HANDLE (#23) & ROPE (#24) to the valve on motor.

12: Attach DOWNSPOUT (#27R) to the auger spout. Both the DOWNSOUT & CONTROL ROPE can be secured for transport with the CHAIN & SPRING CLIP (#14) found on the upper clamp band.

13: Auger discharge height can be adjusted using the HEIGHT ADJUSTER TUBE & COLLAR.

******IMPORTANT-IMPORTANT-IMPORTANT******

ALWAYS TIGHTEN RATCHET LOCK ASSEMBLIES WHEN AUGER IS SET INTO TRANSPORT POSITION. THERE ARE TWO RATCHET LOCKS ON THIS AUGER, ONE ON THE SWING ARM & ONE ON THE WEDGELOCK TAB RECEIVER. IF NOT PROPERLY SECURED, THE AUGER CAN MOVE CAUSING STRESS TO CLAMPBANDS. THIS MAY RESULT IN DAMAGE TO THE AUGER AND/OR THE AUGER COMING LOOSE FROM ITS TRANSPORT POSITION.

PLUMBING SUGGESTIONS:

The vertical auger can be plumbed independent of the 2 cross augers to allow it to run off a secondary tractor or a separate set of remotes (if available).

The vertical auger and the two cross augers can also be plumbed in series to operate off one set of remotes. The pressure line from the tractor should run to the pressure port on the vertical auger first. The return line from the vertical auger should run to one of the cross augers, becoming its pressure line. The return line from that cross auger should now run to the second cross auger, becoming its pressure line. The return line from the second cross auger should run back to the tractor.

The valve system on our augers is a by-pass style. When the valve is open the oil flows through it and the auger does not run. When the valve is closed the oil is forced through the motor causing the auger to run. This allows for the vertical auger & either cross auger to run while the second cross auger remains off.

Plumbing in series may require a quick disconnect in the hose that runs from the vertical auger to the first cross auger to allow for the folding sequence.

IMPORTANT

*USE ½"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.

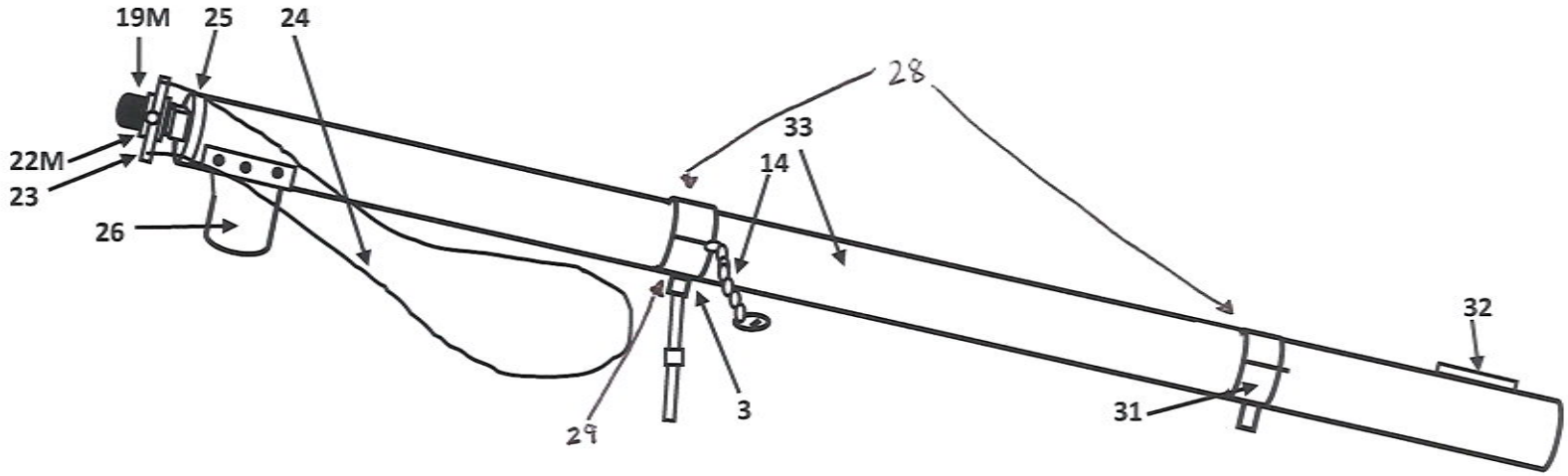
*DO NOT RUN AUGER EMPTY FOR LONG PERIODS OF TIME AS THIS WILL CAUSE WEAR TO TUBE & FLIGHTING.

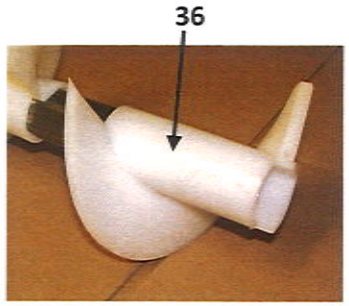
VERTICAL AUGER FOR 12 ROW JD 1770
PARTS LIST

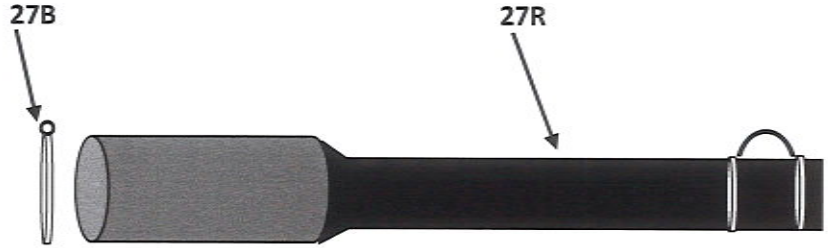
REF #	PRO CD	DESCRPTION
1	1485	9 ½" UHMW PLASTIC SLEEVE
2	1312	SWING ARM
3	1293	HEIGHT ADJUSTER TUBE (INCLUDES #3/4/29/28)
5	1175	LOCK BOLT ASSEMBLY
6	783B	UHMW PLASTIC WASHER
7	1522	MAIN POST
8	1314	SUB-FRAME
9	956	WEDGELOCK TAB RECEIVER
10	CALL	TRANSPORT BRACKET ASSY
12	1496	7" U-BOLT (LONG)
13	1497	7" U-BOLT (SHORT)
14	1177	CHAIN W/ CLIP
19M	395	6 CUBIC INCH MOTOR
22M	117	CONTROL VALVE
23	580	VALVE HANDLE W/ HOLES
24	102 X 12	YELLOW CONTROL ROPE X 12'
25	198	6" MOTOR MOUNT PLATE
26	613	DISCHARGE SPOUT
27R	1294	RIGID DOWNSPOUT C/W FLEX HOSE
27B	149	6" HOSE CLAMP
28	552	½ PLAIN CLAMP BAND (4 BOLT)
29	955	PIVOT CLAMP BAND ASSY W/ #28
31	762	WEDGELOCK TAB CLAMP BAND ASSY W/ #28
32	1203	HOPPER STOP
33	193 X 14'	6" PVC TUBE X 14'
34P	153 X 14'	6" PLASTIC FLIGHTING X 14'
34PSS	402	STAINLESS STEEL MOTOR COUPLER
35	546	6" VERTICAL AUGER HOPPER ASSEMBLY W/ #35A/35B
35A	549	CLAMP BAND FOR V/A HOPPER
35B	548	SAFETY GRILLE FOR V/A
36	397	6" PLASTIC MODULES

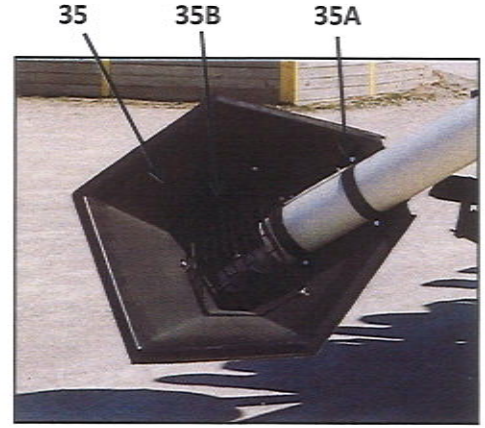
ALL NUTS & BOLTS SOLD DEPERATELY

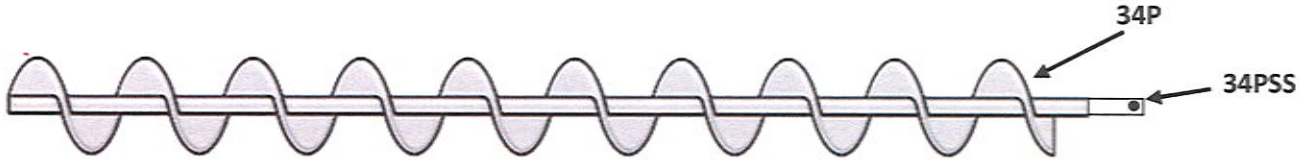
14' VERTICAL AUGER FOR 12 ROW JD 1770



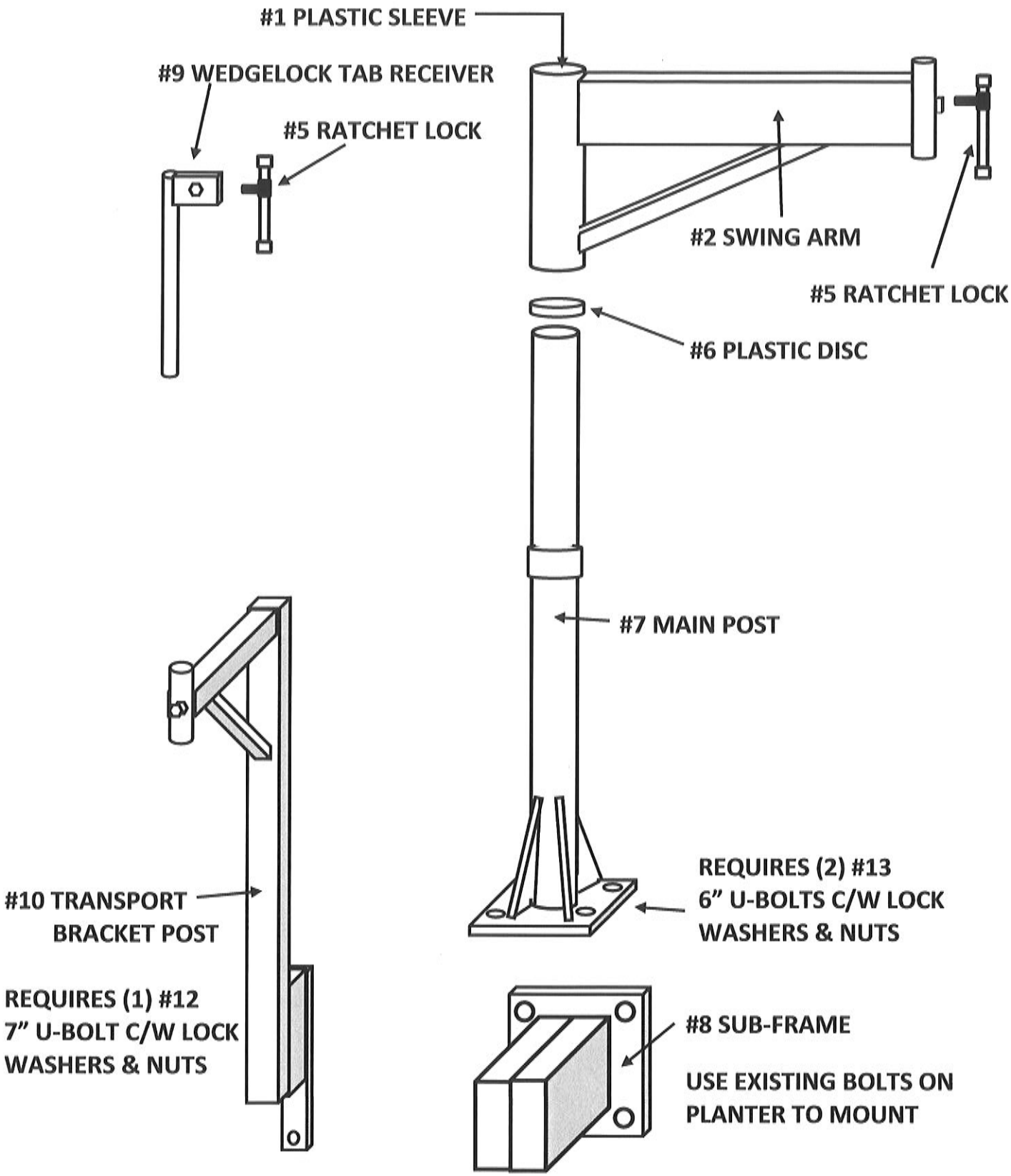


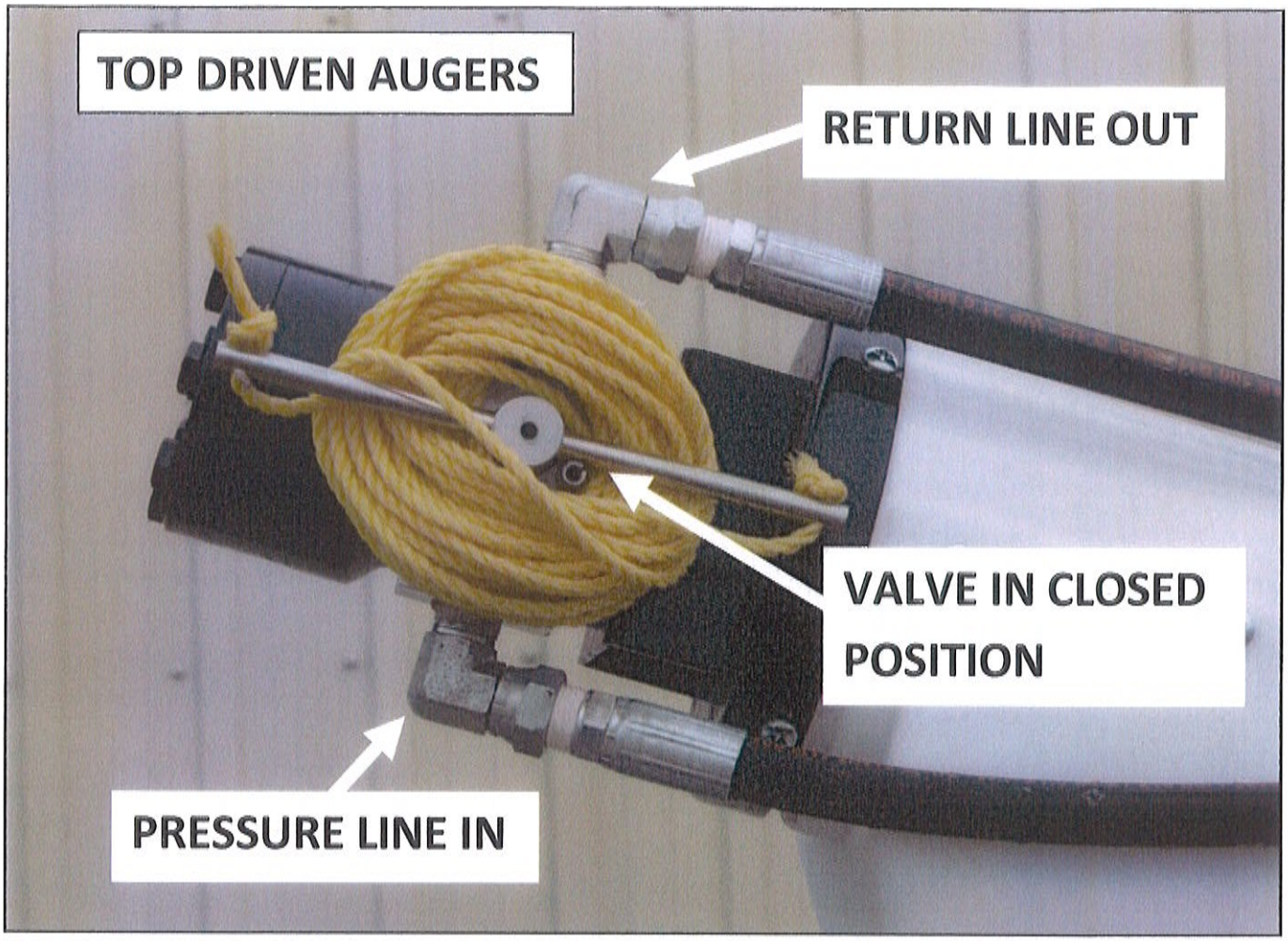


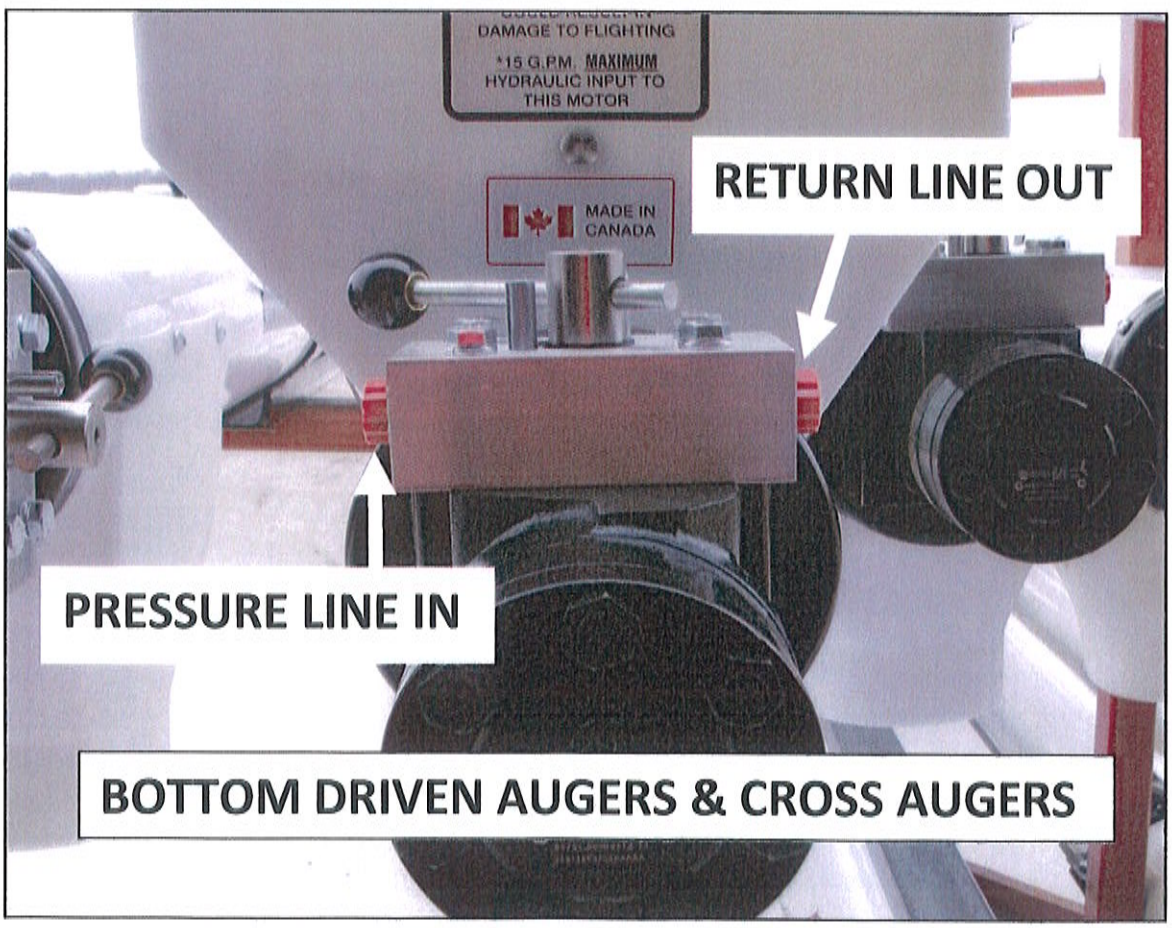




VERTICAL AUGER HARDWARE FOR 12 ROW JD 1770



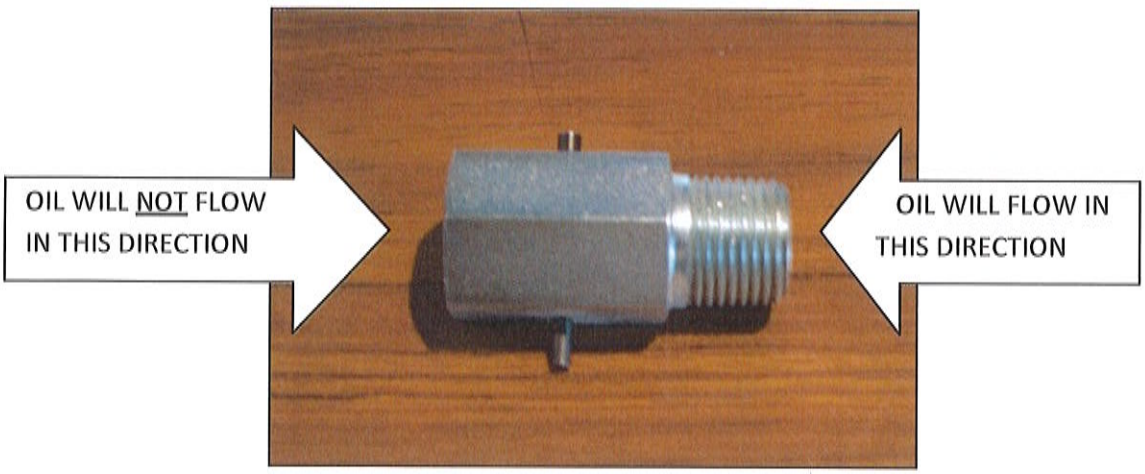

TOP DRIVEN AUGERS
RETURN LINE OUT
VALVE IN CLOSED POSITION
PRESSURE LINE IN


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

OPTIONAL VALVES FOR HYDRAULIC AUGERS

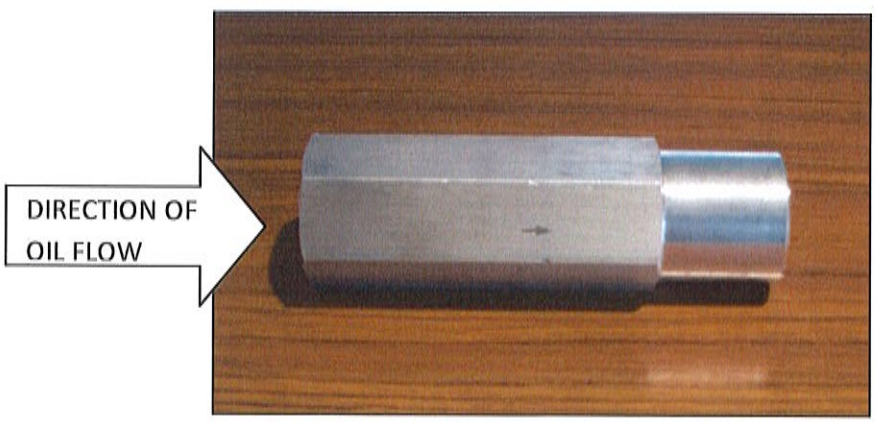
Note: These optional valves do not replace the shut-off valve on the auger.

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

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.